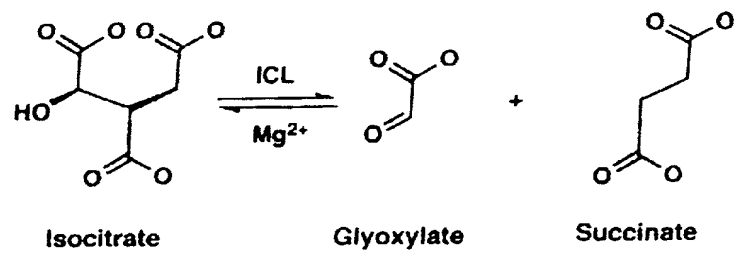
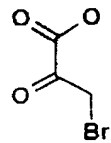


1-1/7

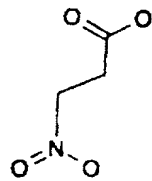


**FIG. 1A**



3-bromopyruvate

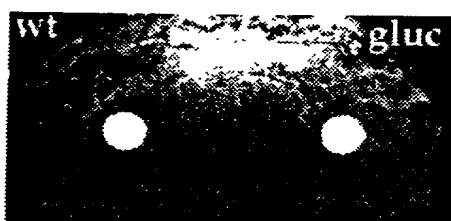
**FIG. 1B**



3-nitropropionate

**FIG. 1C**

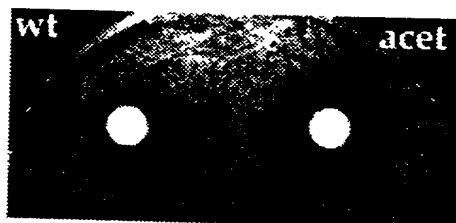




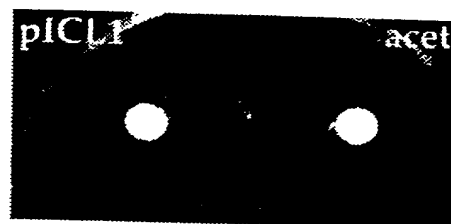
**FIG. 1D**



**FIG. 1E**

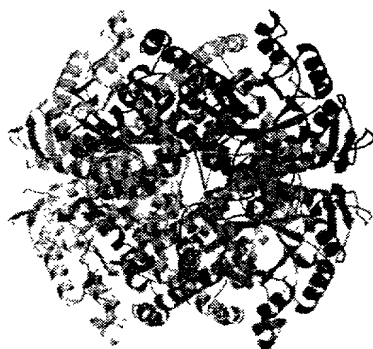


**FIG. 1F**

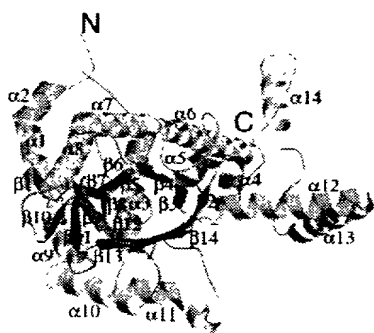


**FIG. 1G**

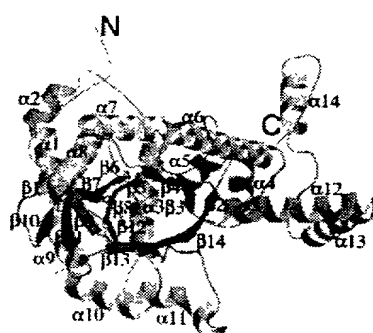




**FIG. 2A**



**FIG. 2B**



**FIG. 2C**



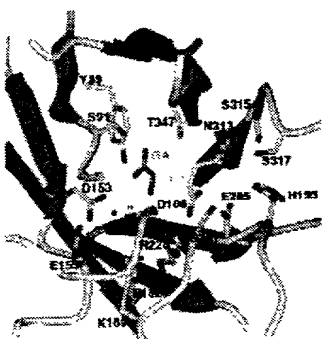


FIG. 3A

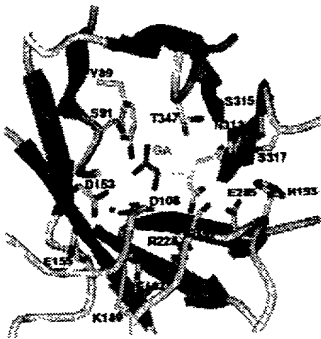


FIG. 3B

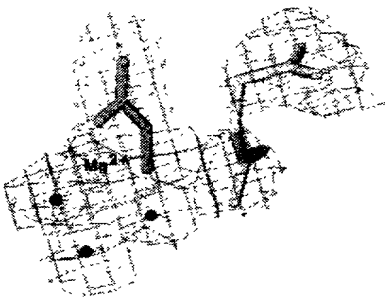


FIG. 3C

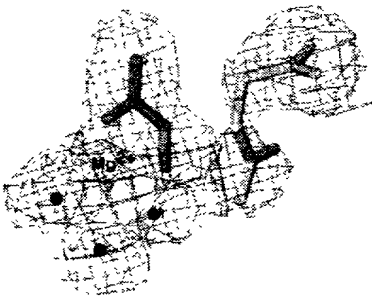


FIG. 3D



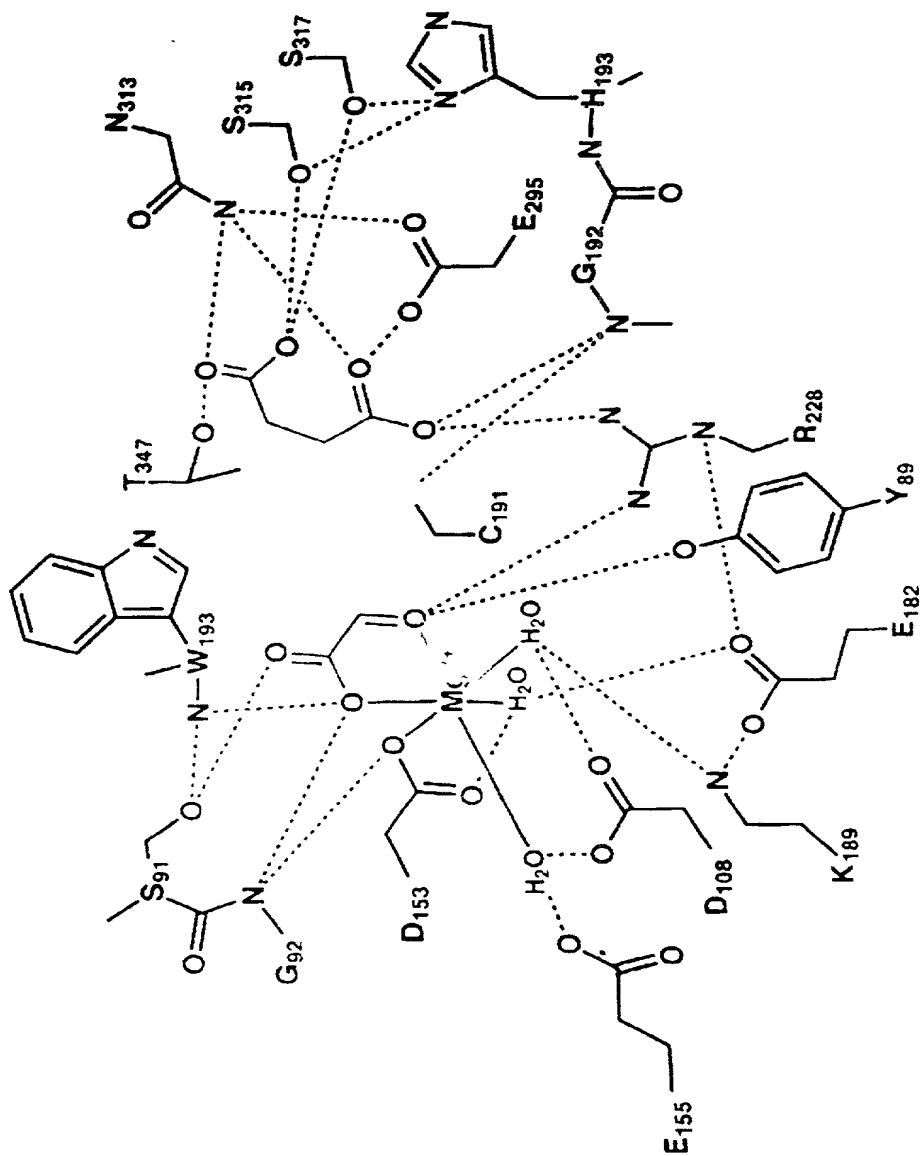


FIG. 3E



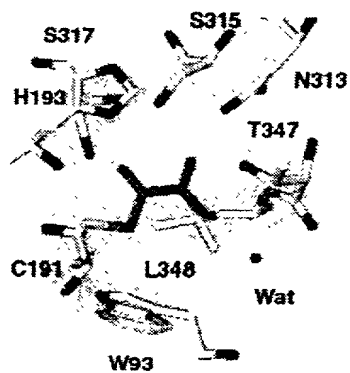


FIG. 4A

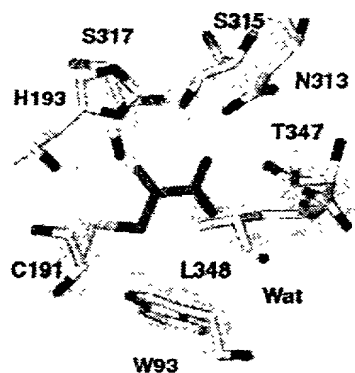


FIG. 4B



FIG. 4C



FIG. 4D



```

HEADER      LYASE                      19-JUN-00  1F61
TITLE       CRYSTAL STRUCTURE OF ISOCITRATE LYASE FROM MYCOBACTERIUM
TITLE       2 TUBERCULOSIS
COMPND      MOL_ID: 1;
COMPND      2 MOLECULE: ISOCITRATE LYASE;
COMPND      3 CHAIN: A, B;
COMPND      4 EC: 4.1.3.1;
COMPND      5 ENGINEERED: YES
SOURCE      MOL_ID: 1;
SOURCE      2 ORGANISM_SCIENTIFIC: MYCOBACTERIUM TUBERCULOSIS;
SOURCE      3 STRAIN: H37RV;
SOURCE      4 EXPRESSION_SYSTEM: ESCHERICHIA COLI;
SOURCE      5 EXPRESSION_SYSTEM_COMMON: BACTERIA;
SOURCE      6 EXPRESSION_SYSTEM_VECTOR_TYPE: PLASMID;
SOURCE      7 EXPRESSION_SYSTEM_PLASMID: PET30B
KEYWDS      ALPHA-BETA BARREL, SWAPPED HELICES, APO-ENZYME, OPEN
KEYWDS      2 CONFORMATION
EXPDTA      X-RAY DIFFRACTION
AUTHOR      V.SHARMA,S.SHARMA,K.H.ZU BENTRUP,J.D.MCKINNEY,D.G.RUSSELL,
AUTHOR      2 W.R.JACOBS JR.,J.C.SACCHETTINI
REVDAT      1 30-AUG-00 1F61 0
JRNL        AUTH  V.SHARMA,S.SHARMA,K.H.ZU BENTRUP,J.D.MCKINNEY,
JRNL          AUTH 2 D.G.RUSSELL,W.R.JACOBS JR.,J.C.SACCHETTINI
JRNL          TITL  STRUCTURE OF ISOCITRATE LYASE, A PERSISTENCE
JRNL          TITL 2 FACTOR OF MYCOBACTERIUM TUBERCULOSIS
JRNL          REF   NAT.STRUCT.BIOL.              V.    7    663 2000
JRNL          REFN  ASTM NSBIEW US ISSN 1072-8368
REMARK      1
REMARK      2
REMARK      2 RESOLUTION. 2.00 ANGSTROMS.
REMARK      3
REMARK      3 REFINEMENT.
REMARK      3   PROGRAM      : CNS 1.0
REMARK      3   AUTHORS      : BRUNGER,ADAMS,CLORE,DELANO,GROS,GROSSE-
REMARK      3                  : KUNSTLEVE,JIANG,KUSZEWSKI,NILGES, PANNU,
REMARK      3                  : READ,RICE,SIMONSON,WARREN
REMARK      3
REMARK      3 REFINEMENT TARGET : ENGH & HUBER
REMARK      3
REMARK      3 DATA USED IN REFINEMENT.
REMARK      3   RESOLUTION RANGE HIGH (ANGSTROMS) : 2.00
REMARK      3   RESOLUTION RANGE LOW  (ANGSTROMS) : 20.00
REMARK      3   DATA CUTOFF              (SIGMA(F)) : 2.000
REMARK      3   OUTLIER CUTOFF HIGH (RMS (ABS(F))) : NULL
REMARK      3   COMPLETENESS (WORKING+TEST) (%) : 88.0
REMARK      3   NUMBER OF REFLECTIONS              : 77576
REMARK      3
REMARK      3 FIT TO DATA USED IN REFINEMENT.
REMARK      3   CROSS-VALIDATION METHOD              : THROUGHOUT
REMARK      3   FREE R VALUE TEST SET SELECTION      : RANDOM
REMARK      3   R VALUE                               (WORKING SET) : 0.165
REMARK      3   FREE R VALUE                          : 0.191
REMARK      3   FREE R VALUE TEST SET SIZE (%)       : 10.000
REMARK      3   FREE R VALUE TEST SET COUNT          : 8587
REMARK      3   ESTIMATED ERROR OF FREE R VALUE      : 0.002
REMARK      3
REMARK      3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK      3   TOTAL NUMBER OF BINS USED              : 6
REMARK      3   BIN RESOLUTION RANGE HIGH             (A) : 2.00
REMARK      3   BIN RESOLUTION RANGE LOW              (A) : 2.13
REMARK      3   BIN COMPLETENESS (WORKING+TEST) (%)    : 86.10
REMARK      3   REFLECTIONS IN BIN (WORKING SET)       : 12410
REMARK      3   BIN R VALUE                           (WORKING SET) : 0.2110
REMARK      3   BIN FREE R VALUE                       : 0.2440
REMARK      3   BIN FREE R VALUE TEST SET SIZE (%)     : 10.10
REMARK      3   BIN FREE R VALUE TEST SET COUNT        : 1389
REMARK      3   ESTIMATED ERROR OF BIN FREE R VALUE    : 0.007
REMARK      3
REMARK      3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK      3   PROTEIN ATOMS                        : 6486
REMARK      3   NUCLEIC ACID ATOMS                   : 0
REMARK      3   HETEROGEN ATOMS                      : 2
REMARK      3   SOLVENT ATOMS                       : 692
REMARK      3
REMARK      3 B VALUES.
REMARK      3   FROM WILSON PLOT                     (A**2) : 21.20
REMARK      3   MEAN B VALUE (OVERALL, A**2)        : 30.90
REMARK      3   OVERALL ANISOTROPIC B VALUE.
REMARK      3     B11 (A**2) : 3.26000

```



```

REMARK 3      B22 (A**2) : 3.26000
REMARK 3      B33 (A**2) : -6.51000
REMARK 3      B12 (A**2) : 1.66000
REMARK 3      B13 (A**2) : 0.00000
REMARK 3      B23 (A**2) : 0.00000
REMARK 3
REMARK 3      ESTIMATED COORDINATE ERROR.
REMARK 3      ESD FROM LUZZATI PLOT          (A) : 0.19
REMARK 3      ESD FROM SIGMAA                (A) : 0.150
REMARK 3      LOW RESOLUTION CUTOFF          (A) : 5.00
REMARK 3
REMARK 3      CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK 3      ESD FROM C-V LUZZATI PLOT      (A) : 0.23
REMARK 3      ESD FROM C-V SIGMAA            (A) : 0.18
REMARK 3
REMARK 3      RMS DEVIATIONS FROM IDEAL VALUES.
REMARK 3      BOND LENGTHS                    (A) : 0.015
REMARK 3      BOND ANGLES                      (DEGREES) : 1.60
REMARK 3      DIHEDRAL ANGLES                  (DEGREES) : 22.70
REMARK 3      IMPROPER ANGLES                  (DEGREES) : 1.04
REMARK 3
REMARK 3      ISOTROPIC THERMAL MODEL : RESTRAINED
REMARK 3
REMARK 3      ISOTROPIC THERMAL FACTOR RESTRAINTS.      RMS      SIGMA
REMARK 3      MAIN-CHAIN BOND                          (A**2) : 0.75 ; 1.500
REMARK 3      MAIN-CHAIN ANGLE                          (A**2) : 1.21 ; 2.000
REMARK 3      SIDE-CHAIN BOND                          (A**2) : 1.22 ; 2.000
REMARK 3      SIDE-CHAIN ANGLE                          (A**2) : 1.87 ; 2.500
REMARK 3
REMARK 3      BULK SOLVENT MODELING.
REMARK 3      METHOD USED : FLAT MODEL
REMARK 3      KSOL          : 0.39
REMARK 3      BSOL          : 54.25
REMARK 3
REMARK 3      NCS MODEL : CONSTR
REMARK 3
REMARK 3      NCS RESTRAINTS.                                RMS      SIGMA/WEIGHT
REMARK 3      GROUP 1 POSITIONAL                            (A) : NULL ; NULL
REMARK 3      GROUP 1 B-FACTOR                             (A**2) : NULL ; NULL
REMARK 3
REMARK 3      PARAMETER FILE 1 : PROTEIN.REP.PARAM
REMARK 3      PARAMETER FILE 2 : ION.PARAM
REMARK 3      PARAMETER FILE 3 : WATER.REP.PARAM
REMARK 3      TOPOLOGY FILE 1 : PROTEIN.TOP
REMARK 3      TOPOLOGY FILE 2 : ION.TOP
REMARK 3      TOPOLOGY FILE 3 : WATER.TOP
REMARK 3
REMARK 3      OTHER REFINEMENT REMARKS: NULL
REMARK 4
REMARK 4      1F61 COMPLIES WITH FORMAT V. 2.3, 09-JULY-1998
REMARK 100
REMARK 100      THIS ENTRY HAS BEEN PROCESSED BY RCSB ON 21-JUN-2000.
REMARK 100      THE RCSB ID CODE IS RCSB011286.
REMARK 200
REMARK 200      EXPERIMENTAL DETAILS
REMARK 200      EXPERIMENT TYPE                          : X-RAY DIFFRACTION
REMARK 200      DATE OF DATA COLLECTION                  : 13-APR-1999; 13-JUN-1999
REMARK 200      TEMPERATURE (KELVIN)                     : 100.0; 100.0
REMARK 200      PH                                         : 8.00
REMARK 200      NUMBER OF CRYSTALS USED                   : 1
REMARK 200
REMARK 200      SYNCHROTRON (Y/N) : Y; Y
REMARK 200      RADIATION SOURCE                          : APS ; APS
REMARK 200      BEAMLINE                                    : 19ID; 14BMD
REMARK 200      X-RAY GENERATOR MODEL                     : NULL
REMARK 200      MONOCHROMATIC OR LAUE (M/L) : M
REMARK 200      WAVELENGTH OR RANGE (A) : 0.9791; 0.9798
REMARK 200      MONOCHROMATOR                             : NULL
REMARK 200      OPTICS                                     : NULL
REMARK 200
REMARK 200      DETECTOR TYPE                              : CCD; CCD
REMARK 200      DETECTOR MANUFACTURER                       : ADSC QUANTUM 1; 3K X 3K
REMARK 200      AT APS
REMARK 200      INTENSITY-INTEGRATION SOFTWARE             : DENZO
REMARK 200      DATA SCALING SOFTWARE                     : SCALEPACK
REMARK 200
REMARK 200      NUMBER OF UNIQUE REFLECTIONS               : 97699
REMARK 200      RESOLUTION RANGE HIGH (A) : 2.000
REMARK 200      RESOLUTION RANGE LOW (A) : 20.000

```



```

REMARK 200 REJECTION CRITERIA (SIGMA(I)) : -3.000
REMARK 200
REMARK 200 OVERALL.
REMARK 200 COMPLETENESS FOR RANGE (%) : 99.8
REMARK 200 DATA REDUNDANCY : 11.080
REMARK 200 R MERGE (I) : 0.07600
REMARK 200 R SYM (I) : NULL
REMARK 200 <I/SIGMA(I)> FOR THE DATA SET : 12.5000
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A) : 2.00
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A) : 2.07
REMARK 200 COMPLETENESS FOR SHELL (%) : 100.0
REMARK 200 DATA REDUNDANCY IN SHELL : 10.00
REMARK 200 R MERGE FOR SHELL (I) : 0.37000
REMARK 200 R SYM FOR SHELL (I) : NULL
REMARK 200 <I/SIGMA(I)> FOR SHELL : NULL
REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH
REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: NULL
REMARK 200 SOFTWARE USED: CNS
REMARK 200 STARTING MODEL: NULL
REMARK 200
REMARK 200 REMARK: NULL
REMARK 280
REMARK 280 CRYSTAL
REMARK 280 SOLVENT CONTENT, VS (%) : NULL
REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA) : NULL
REMARK 280
REMARK 280 CRYSTALLIZATION CONDITIONS: SODIUM CITRATE, HEPES
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY
REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 65 2 2
REMARK 290
REMARK 290 SYMOP SYMMETRY
REMARK 290 NNNMMM OPERATOR
REMARK 290 1555 X,Y,Z
REMARK 290 2555 -Y,X-Y,2/3+Z
REMARK 290 3555 -X+Y,-X,1/3+Z
REMARK 290 4555 -X,-Y,1/2+Z
REMARK 290 5555 Y,-X+Y,1/6+Z
REMARK 290 6555 X-Y,X,5/6+Z
REMARK 290 7555 Y,X,2/3-Z
REMARK 290 8555 X-Y,-Y,-Z
REMARK 290 9555 -X,-X+Y,1/3-Z
REMARK 290 10555 -Y,-X,1/6-Z
REMARK 290 11555 -X+Y,Y,1/2-Z
REMARK 290 12555 X,X-Y,5/6-Z
REMARK 290
REMARK 290 WHERE NNN -> OPERATOR NUMBER
REMARK 290 MMM -> TRANSLATION VECTOR
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS
REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM
REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY
REMARK 290 RELATED MOLECULES.
REMARK 290 SMTRY1 1 1.000000 0.000000 0.000000 0.000000
REMARK 290 SMTRY2 1 0.000000 1.000000 0.000000 0.000000
REMARK 290 SMTRY3 1 0.000000 0.000000 1.000000 0.000000
REMARK 290 SMTRY1 2 -0.500000 -0.866025 0.000000 0.000000
REMARK 290 SMTRY2 2 0.866025 -0.500000 0.000000 0.000000
REMARK 290 SMTRY3 2 0.000000 0.000000 1.000000 192.27000
REMARK 290 SMTRY1 3 -0.500000 0.866025 0.000000 0.000000
REMARK 290 SMTRY2 3 -0.866025 -0.500000 0.000000 0.000000
REMARK 290 SMTRY3 3 0.000000 0.000000 1.000000 96.13500
REMARK 290 SMTRY1 4 -1.000000 0.000000 0.000000 0.000000
REMARK 290 SMTRY2 4 0.000000 -1.000000 0.000000 0.000000
REMARK 290 SMTRY3 4 0.000000 0.000000 1.000000 144.20250
REMARK 290 SMTRY1 5 0.500000 0.866025 0.000000 0.000000
REMARK 290 SMTRY2 5 -0.866025 0.500000 0.000000 0.000000
REMARK 290 SMTRY3 5 0.000000 0.000000 1.000000 48.06750
REMARK 290 SMTRY1 6 0.500000 -0.866025 0.000000 0.000000
REMARK 290 SMTRY2 6 0.866025 0.500000 0.000000 0.000000
REMARK 290 SMTRY3 6 0.000000 0.000000 1.000000 240.33750
REMARK 290 SMTRY1 7 -0.500000 0.866025 0.000000 0.000000
REMARK 290 SMTRY2 7 0.866025 0.500000 0.000000 0.000000
REMARK 290 SMTRY3 7 0.000000 0.000000 -1.000000 192.27000
REMARK 290 SMTRY1 8 1.000000 0.000000 0.000000 0.000000
REMARK 290 SMTRY2 8 0.000000 -1.000000 0.000000 0.000000
REMARK 290 SMTRY3 8 0.000000 0.000000 -1.000000 0.000000

```



```

REMARK 290 SMTRY1 9 -0.500000 -0.866025 0.000000 0.000000
REMARK 290 SMTRY2 9 -0.866025 0.500000 0.000000 0.000000
REMARK 290 SMTRY3 9 0.000000 0.000000 -1.000000 96.13500
REMARK 290 SMTRY1 10 0.500000 -0.866025 0.000000 0.000000
REMARK 290 SMTRY2 10 -0.866025 -0.500000 0.000000 0.000000
REMARK 290 SMTRY3 10 0.000000 0.000000 -1.000000 48.06750
REMARK 290 SMTRY1 11 -1.000000 0.000000 0.000000 0.000000
REMARK 290 SMTRY2 11 0.000000 1.000000 0.000000 0.000000
REMARK 290 SMTRY3 11 0.000000 0.000000 -1.000000 144.20250
REMARK 290 SMTRY1 12 0.500000 0.866025 0.000000 0.000000
REMARK 290 SMTRY2 12 0.866025 -0.500000 0.000000 0.000000
REMARK 290 SMTRY3 12 0.000000 0.000000 -1.000000 240.33750
REMARK 290
REMARK 290 REMARK: NULL
REMARK 300
REMARK 300 BIOMOLECULE: 1
REMARK 300 THIS ENTRY CONTAINS THE CRYSTALLOGRAPHIC ASYMMETRIC UNIT
REMARK 300 WHICH CONSISTS OF 2 CHAIN(S). SEE REMARK 350 FOR
REMARK 300 INFORMATION ON GENERATING THE BIOLOGICAL MOLECULE(S).
REMARK 350
REMARK 350 GENERATING THE BIOMOLECULE
REMARK 350 COORDINATES FOR A COMPLETE MULTIMER REPRESENTING THE KNOWN
REMARK 350 BIOLOGICALLY SIGNIFICANT OLIGOMERIZATION STATE OF THE
REMARK 350 MOLECULE CAN BE GENERATED BY APPLYING BIOMT TRANSFORMATIONS
REMARK 350 GIVEN BELOW. BOTH NON-CRYSTALLOGRAPHIC AND
REMARK 350 CRYSTALLOGRAPHIC OPERATIONS ARE GIVEN.
REMARK 350
REMARK 350 BIOMOLECULE: 1
REMARK 350 APPLY THE FOLLOWING TO CHAINS: A, B
REMARK 350 BIOMT1 1 1.000000 0.000000 0.000000 0.000000
REMARK 350 BIOMT2 1 0.000000 1.000000 0.000000 0.000000
REMARK 350 BIOMT3 1 0.000000 0.000000 1.000000 0.000000
REMARK 350 BIOMT1 2 0.500000 -0.866025 0.000000 65.12250
REMARK 350 BIOMT2 2 -0.866025 -0.500000 0.000000 112.79548
REMARK 350 BIOMT3 2 0.000000 0.000000 -1.000000 48.06750
REMARK 375
REMARK 375 SPECIAL POSITION
REMARK 375 THE FOLLOWING ATOMS ARE FOUND TO BE WITHIN 0.15 ANGSTROMS
REMARK 375 OF A SYMMETRY RELATED ATOM AND ARE ASSUMED TO BE ON SPECIAL
REMARK 375 POSITIONS.
REMARK 375
REMARK 375 ATOM RES CSSEQI
REMARK 375 HOH 977 LIES ON A SPECIAL POSITION.
REMARK 375 HOH 1049 LIES ON A SPECIAL POSITION.
REMARK 375 HOH 978 LIES ON A SPECIAL POSITION.
REMARK 375 HOH 1077 LIES ON A SPECIAL POSITION.
REMARK 375 HOH 1013 LIES ON A SPECIAL POSITION.
REMARK 375 HOH 976 LIES ON A SPECIAL POSITION.
REMARK 375 HOH 979 LIES ON A SPECIAL POSITION.
REMARK 465
REMARK 465 MISSING RESIDUES
REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE
REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 465 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE.)
REMARK 465
REMARK 465 M RES C SSSEQI
REMARK 465 MET A 0
REMARK 465 THR A 419
REMARK 465 GLY A 420
REMARK 465 SER A 421
REMARK 465 THR A 422
REMARK 465 GLU A 423
REMARK 465 GLU A 424
REMARK 465 GLY A 425
REMARK 465 GLN A 426
REMARK 465 PHE A 427
REMARK 465 HIS A 428
REMARK 465 MET B 0
REMARK 465 THR B 419
REMARK 465 GLY B 420
REMARK 465 SER B 421
REMARK 465 THR B 422
REMARK 465 GLU B 423
REMARK 465 GLU B 424
REMARK 465 GLY B 425
REMARK 465 GLN B 426
REMARK 465 PHE B 427
REMARK 465 HIS B 428
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY

```



REMARK 500 SUBTOPIC: CLOSE CONTACTS IN SAME ASYMMETRIC UNIT

REMARK 500 THE FOLLOWING ATOMS ARE IN CLOSE CONTACT.

ATM1	RES	C	SSEQI	ATM2	RES	C	SSEQI	
O	ALA	A	276	O	HOH		533	2.16

REMARK 500 GEOMETRY AND STEREOCHEMISTRY

REMARK 500 SUBTOPIC: CLOSE CONTACTS

REMARK 500 THE FOLLOWING ATOMS THAT ARE RELATED BY CRYSTALLOGRAPHIC SYMMETRY ARE IN CLOSE CONTACT. AN ATOM LOCATED WITHIN 0.15 ANGSTROMS OF A SYMMETRY RELATED ATOM IS ASSUMED TO BE ON A SPECIAL POSITION AND IS, THEREFORE, LISTED IN REMARK 375 INSTEAD OF REMARK 500. ATOMS WITH NON-BLANK ALTERNATE LOCATION INDICATORS ARE NOT INCLUDED IN THE CALCULATIONS.

REMARK 500 DISTANCE CUTOFF:

REMARK 500 2.2 ANGSTROMS FOR CONTACTS NOT INVOLVING HYDROGEN ATOMS

REMARK 500 1.6 ANGSTROMS FOR CONTACTS INVOLVING HYDROGEN ATOMS

ATM1	RES	C	SSEQI	ATM2	RES	C	SSEQI	SSYMOP	DISTANCE
O	HOH		1157	O	HOH		1157	10665	1.50
O	HOH		1159	O	HOH		1159	10665	1.85

REMARK 500 GEOMETRY AND STEREOCHEMISTRY

REMARK 500 SUBTOPIC: COVALENT BOND LENGTHS

REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE THAN 6\*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).

REMARK 500 STANDARD TABLE:

REMARK 500 FORMAT: (10X,I3,1X,2(A3,1X,A1,I4,A1,1X,A4,3X),F6.3)

REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991

M	RES	CSSEQI	ATM1	RES	CSSEQI	ATM2	DEVIATION
	VAL	A 164	CG2	VAL	A 164	CB	-0.101
	PRO	A 267	CG	PRO	A 267	CB	0.095
	ASN	B 313	CG	ASN	B 313	CB	0.098

REMARK 500 GEOMETRY AND STEREOCHEMISTRY

REMARK 500 SUBTOPIC: COVALENT BOND ANGLES

REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE THAN 6\*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).

REMARK 500 STANDARD TABLE:

REMARK 500 FORMAT: (10X,I3,1X,A3,1X,A1,I4,A1,3(1X,A4,2X),12X,F5.1)

REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991

M	RES	CSSEQI	ATM1	ATM2	ATM3	ANGL. DEV.
	THR	A 19	N	CA	C	10.3 DEGREES
	ARG	A 50	CG	CD	NE	-12.0 DEGREES
	PRO	A 107	N	CA	C	-9.9 DEGREES
	LYS	A 392	N	CA	C	-11.2 DEGREES
	THR	B 19	N	CA	C	9.7 DEGREES
	PRO	B 107	N	CA	C	-10.3 DEGREES
	GLY	B 192	N	CA	C	9.4 DEGREES

REMARK 525 SOLVENT

REMARK 525 THE FOLLOWING SOLVENT MOLECULES LIE FARTHER THAN EXPECTED FROM THE PROTEIN OR NUCLEIC ACID MOLECULE AND MAY BE ASSOCIATED WITH A SYMMETRY RELATED MOLECULE (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE):

M	RES	CSSEQI	DISTANCE
	O	HOH 909	5.09 ANGSTROMS
	O	HOH 940	6.13 ANGSTROMS
	O	HOH 953	6.75 ANGSTROMS

REMARK 999 SEQUENCE

REMARK 999 AN ALANINE WAS INSERTED AT THE N-TERMINUS AFTER THE FIRST METHIONINE RESIDUE, MASVV...



REMARK 999 MET 0 WAS NOT OBSERVED DUE TO POOR DENSITY OR  
 REMARK 999 PERHAPS IT WAS CLEAVED OFF THE RECOMBINANT  
 REMARK 999 PROTEIN DURING EXPRESSION. THEREFORE, THE  
 REMARK 999 FIRST RESIDUE IN THIS ENTRY IS ALA 1.

DBREF 1F61 A 0 428 GB 2909543 CAA17422 1 428  
 DBREF 1F61 B 0 428 GB 2909543 CAA17422 1 428

SEQADV 1F61 ALA A 1 GB 2909543 INSERTION  
 SEQADV 1F61 ALA B 1 GB 2909543 INSERTION

SEQRES 1 A 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN  
 SEQRES 2 A 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP  
 SEQRES 3 A 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU  
 SEQRES 4 A 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG  
 SEQRES 5 A 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU  
 SEQRES 6 A 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA  
 SEQRES 7 A 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU  
 SEQRES 8 A 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY  
 SEQRES 9 A 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER  
 SEQRES 10 A 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN  
 SEQRES 11 A 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER  
 SEQRES 12 A 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU  
 SEQRES 13 A 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN  
 SEQRES 14 A 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP  
 SEQRES 15 A 429 GLU ASP GLN LEU ALA SER GLU LYS LYS CYS GLY HIS LEU  
 SEQRES 16 A 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 A 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 A 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 A 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 A 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 A 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 A 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 A 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 A 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 A 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU  
 SEQRES 26 A 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 A 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 A 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR  
 SEQRES 29 A 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 A 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 A 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 A 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 A 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS  
 SEQRES 1 B 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN  
 SEQRES 2 B 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP  
 SEQRES 3 B 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU  
 SEQRES 4 B 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG  
 SEQRES 5 B 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU  
 SEQRES 6 B 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA  
 SEQRES 7 B 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU  
 SEQRES 8 B 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY  
 SEQRES 9 B 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER  
 SEQRES 10 B 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN  
 SEQRES 11 B 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER  
 SEQRES 12 B 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU  
 SEQRES 13 B 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN  
 SEQRES 14 B 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP  
 SEQRES 15 B 429 GLU ASP GLN LEU ALA SER GLU LYS LYS CYS GLY HIS LEU  
 SEQRES 16 B 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 B 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 B 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 B 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 B 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 B 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 B 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 B 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 B 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 B 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU  
 SEQRES 26 B 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 B 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 B 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR  
 SEQRES 29 B 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 B 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 B 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 B 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 B 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS

HET MG A 451 1

HET MG B 452 1

HETNAM MG MAGNESIUM ION

FORMUL 3 MG 2 (MG1 2+)

FORMUL 5 HOH \*692 (H2 O1)

HELIX 1 1 SER A 9 ASN A 20 1



[illegible]



ATOM	9	O	SER	A	2	59.407	61.964	51.302	1.00	47.31	O
ATOM	10	CB	SER	A	2	61.248	59.580	50.245	1.00	48.41	C
ATOM	11	OG	SER	A	2	61.576	60.216	49.025	1.00	47.50	O
ATOM	12	N	VAL	A	3	61.354	62.800	50.496	1.00	45.35	N
ATOM	13	CA	VAL	A	3	60.722	64.023	50.062	1.00	43.73	C
ATOM	14	C	VAL	A	3	60.683	63.998	48.514	1.00	42.22	C
ATOM	15	O	VAL	A	3	60.299	64.982	47.869	1.00	41.88	O
ATOM	16	CB	VAL	A	3	61.498	65.262	50.577	1.00	44.27	C
ATOM	17	CG1	VAL	A	3	61.538	65.225	52.122	1.00	44.42	C
ATOM	18	CG2	VAL	A	3	62.916	65.292	49.988	1.00	44.14	C
ATOM	19	N	VAL	A	4	61.087	62.872	47.923	1.00	39.84	N
ATOM	20	CA	VAL	A	4	61.077	62.750	46.460	1.00	37.88	C
ATOM	21	C	VAL	A	4	59.629	62.823	45.966	1.00	36.96	C
ATOM	22	O	VAL	A	4	58.777	62.065	46.426	1.00	36.92	O
ATOM	23	CB	VAL	A	4	61.733	61.430	46.016	1.00	37.01	C
ATOM	24	CG1	VAL	A	4	61.549	61.220	44.503	1.00	36.50	C
ATOM	25	CG2	VAL	A	4	63.219	61.464	46.379	1.00	36.57	C
ATOM	26	N	GLY	A	5	59.347	63.772	45.079	1.00	36.04	N
ATOM	27	CA	GLY	A	5	57.996	63.935	44.558	1.00	35.45	C
ATOM	28	C	GLY	A	5	56.909	64.488	45.479	1.00	35.15	C
ATOM	29	O	GLY	A	5	55.711	64.411	45.151	1.00	34.39	O
ATOM	30	N	THR	A	6	57.289	65.048	46.628	1.00	34.93	N
ATOM	31	CA	THR	A	6	56.295	65.629	47.550	1.00	34.76	C
ATOM	32	C	THR	A	6	55.502	66.688	46.794	1.00	33.68	C
ATOM	33	O	THR	A	6	56.092	67.505	46.117	1.00	33.16	O
ATOM	34	CB	THR	A	6	56.978	66.357	48.747	1.00	35.83	C
ATOM	35	OG1	THR	A	6	57.738	65.412	49.506	1.00	37.86	O
ATOM	36	CG2	THR	A	6	55.936	66.986	49.655	1.00	36.43	C
ATOM	37	N	PRO	A	7	54.162	66.693	46.916	1.00	33.04	N
ATOM	38	CA	PRO	A	7	53.307	67.668	46.229	1.00	33.44	C
ATOM	39	C	PRO	A	7	53.533	69.096	46.741	1.00	34.23	C
ATOM	40	O	PRO	A	7	53.964	69.288	47.879	1.00	33.96	O
ATOM	41	CB	PRO	A	7	51.882	67.211	46.571	1.00	32.39	C
ATOM	42	CG	PRO	A	7	52.048	65.736	46.944	1.00	33.46	C
ATOM	43	CD	PRO	A	7	53.357	65.762	47.716	1.00	33.39	C
ATOM	44	N	LYS	A	8	53.253	70.090	45.906	1.00	34.53	N
ATOM	45	CA	LYS	A	8	53.362	71.474	46.360	1.00	35.18	C
ATOM	46	C	LYS	A	8	52.108	71.709	47.208	1.00	35.04	C
ATOM	47	O	LYS	A	8	51.157	70.920	47.143	1.00	35.01	O
ATOM	48	CB	LYS	A	8	53.363	72.433	45.174	1.00	35.69	C
ATOM	49	CG	LYS	A	8	54.645	72.409	44.398	1.00	37.09	C
ATOM	50	CD	LYS	A	8	54.638	73.422	43.271	1.00	37.98	C
ATOM	51	CE	LYS	A	8	53.886	72.918	42.053	1.00	38.00	C
ATOM	52	NZ	LYS	A	8	54.649	73.233	40.781	1.00	37.44	N
ATOM	53	N	SER	A	9	52.092	72.769	48.021	1.00	34.54	N
ATOM	54	CA	SER	A	9	50.903	73.067	48.835	1.00	33.73	C
ATOM	55	C	SER	A	9	49.902	73.795	47.935	1.00	33.55	C
ATOM	56	O	SER	A	9	50.259	74.302	46.878	1.00	33.24	O
ATOM	57	CB	SER	A	9	51.268	74.008	49.981	1.00	33.81	C
ATOM	58	OG	SER	A	9	51.656	75.265	49.424	1.00	33.83	O
ATOM	59	N	ALA	A	10	48.658	73.879	48.367	1.00	34.11	N
ATOM	60	CA	ALA	A	10	47.671	74.584	47.575	1.00	35.13	C
ATOM	61	C	ALA	A	10	48.080	76.054	47.450	1.00	35.98	C
ATOM	62	O	ALA	A	10	47.849	76.691	46.428	1.00	35.22	O
ATOM	63	CB	ALA	A	10	46.286	74.470	48.229	1.00	34.34	C
ATOM	64	N	GLU	A	11	48.693	76.595	48.497	1.00	36.95	N
ATOM	65	CA	GLU	A	11	49.113	78.005	48.448	1.00	38.71	C
ATOM	66	C	GLU	A	11	50.173	78.234	47.371	1.00	37.64	C
ATOM	67	O	GLU	A	11	50.140	79.239	46.676	1.00	37.24	O
ATOM	68	CB	GLU	A	11	49.629	78.478	49.824	1.00	40.23	C
ATOM	69	CG	GLU	A	11	48.607	78.298	50.953	1.00	43.88	C
ATOM	70	CD	GLU	A	11	48.410	76.829	51.408	1.00	46.67	C
ATOM	71	OE1	GLU	A	11	49.076	75.900	50.880	1.00	47.80	O
ATOM	72	OE2	GLU	A	11	47.577	76.596	52.319	1.00	48.67	O
ATOM	73	N	GLN	A	12	51.109	77.310	47.213	1.00	37.76	N
ATOM	74	CA	GLN	A	12	52.107	77.479	46.163	1.00	38.42	C
ATOM	75	C	GLN	A	12	51.470	77.435	44.756	1.00	37.98	C
ATOM	76	O	GLN	A	12	51.818	78.218	43.850	1.00	38.04	O
ATOM	77	CB	GLN	A	12	53.142	76.384	46.241	1.00	39.84	C
ATOM	78	CG	GLN	A	12	53.724	76.195	47.613	1.00	43.38	C
ATOM	79	CD	GLN	A	12	54.759	75.099	47.602	1.00	44.69	C
ATOM	80	OE1	GLN	A	12	55.833	75.258	47.019	1.00	47.37	O
ATOM	81	NE2	GLN	A	12	54.439	73.974	48.213	1.00	44.87	N
ATOM	82	N	ILE	A	13	50.544	76.508	44.569	1.00	36.98	N
ATOM	83	CA	ILE	A	13	49.874	76.372	43.282	1.00	36.28	C
ATOM	84	C	ILE	A	13	49.113	77.668	42.999	1.00	36.20	C
ATOM	85	O	ILE	A	13	49.210	78.240	41.915	1.00	35.60	O
ATOM	86	CB	ILE	A	13	48.881	75.163	43.309	1.00	35.86	C
ATOM	87	CG1	ILE	A	13	49.672	73.845	43.382	1.00	35.79	C
ATOM	88	CG2	ILE	A	13	47.946	75.201	42.095	1.00	34.08	C



ATOM	89	CD1	ILE	A	13	48.775	72.644	43.617	1.00	35.52	C
ATOM	90	N	GLN	A	14	48.366	78.138	43.989	1.00	37.00	N
ATOM	91	CA	GLN	A	14	47.585	79.367	43.815	1.00	37.67	C
ATOM	92	C	GLN	A	14	48.483	80.550	43.439	1.00	38.02	C
ATOM	93	O	GLN	A	14	48.115	81.388	42.610	1.00	37.32	O
ATOM	94	CB	GLN	A	14	46.816	79.682	45.100	1.00	38.03	C
ATOM	95	CG	GLN	A	14	45.838	80.839	44.960	1.00	37.87	C
ATOM	96	CD	GLN	A	14	44.723	80.536	43.986	1.00	38.21	C
ATOM	97	OE1	GLN	A	14	43.890	79.680	44.236	1.00	38.34	O
ATOM	98	NE2	GLN	A	14	44.709	81.239	42.863	1.00	38.74	N
ATOM	99	N	GLN	A	15	49.662	80.606	44.057	1.00	39.11	N
ATOM	100	CA	GLN	A	15	50.617	81.683	43.801	1.00	40.25	C
ATOM	101	C	GLN	A	15	51.069	81.637	42.347	1.00	39.81	C
ATOM	102	O	GLN	A	15	51.179	82.675	41.697	1.00	39.48	O
ATOM	103	CB	GLN	A	15	51.820	81.564	44.759	1.00	42.49	C
ATOM	104	CG	GLN	A	15	52.980	82.531	44.487	1.00	45.17	C
ATOM	105	CD	GLN	A	15	52.634	84.003	44.727	1.00	47.62	C
ATOM	106	OE1	GLN	A	15	51.536	84.345	45.208	1.00	48.97	O
ATOM	107	NE2	GLN	A	15	53.583	84.889	44.400	1.00	48.55	N
ATOM	108	N	GLU	A	16	51.330	80.438	41.828	1.00	39.51	N
ATOM	109	CA	GLU	A	16	51.730	80.314	40.425	1.00	39.28	C
ATOM	110	C	GLU	A	16	50.577	80.741	39.540	1.00	37.54	C
ATOM	111	O	GLU	A	16	50.775	81.442	38.552	1.00	37.09	O
ATOM	112	CB	GLU	A	16	52.099	78.869	40.083	1.00	41.55	C
ATOM	113	CG	GLU	A	16	53.384	78.410	40.697	1.00	45.67	C
ATOM	114	CD	GLU	A	16	53.686	76.963	40.339	1.00	48.60	C
ATOM	115	OE1	GLU	A	16	53.576	76.633	39.130	1.00	50.02	O
ATOM	116	OE2	GLU	A	16	54.028	76.162	41.252	1.00	50.17	O
ATOM	117	N	TRP	A	17	49.365	80.313	39.887	1.00	36.43	N
ATOM	118	CA	TRP	A	17	48.206	80.680	39.073	1.00	36.16	C
ATOM	119	C	TRP	A	17	48.020	82.196	39.100	1.00	37.08	C
ATOM	120	O	TRP	A	17	47.628	82.798	38.091	1.00	37.15	O
ATOM	121	CB	TRP	A	17	46.922	80.012	39.581	1.00	34.23	C
ATOM	122	CG	TRP	A	17	46.862	78.501	39.363	1.00	33.82	C
ATOM	123	CD1	TRP	A	17	47.796	77.718	38.727	1.00	32.72	C
ATOM	124	CD2	TRP	A	17	45.843	77.602	39.837	1.00	32.67	C
ATOM	125	NE1	TRP	A	17	47.425	76.396	38.791	1.00	32.65	N
ATOM	126	CE2	TRP	A	17	46.232	76.294	39.462	1.00	32.89	C
ATOM	127	CE3	TRP	A	17	44.649	77.776	40.546	1.00	32.38	C
ATOM	128	CZ2	TRP	A	17	45.464	75.160	39.774	1.00	31.98	C
ATOM	129	CZ3	TRP	A	17	43.883	76.654	40.862	1.00	32.51	C
ATOM	130	CH2	TRP	A	17	44.298	75.357	40.472	1.00	32.66	C
ATOM	131	N	ASP	A	18	48.297	82.805	40.253	1.00	37.64	N
ATOM	132	CA	ASP	A	18	48.119	84.255	40.389	1.00	38.81	C
ATOM	133	C	ASP	A	18	49.182	85.063	39.699	1.00	38.60	C
ATOM	134	O	ASP	A	18	48.894	86.116	39.151	1.00	39.29	O
ATOM	135	CB	ASP	A	18	48.131	84.690	41.862	1.00	39.78	C
ATOM	136	CG	ASP	A	18	46.967	84.159	42.639	1.00	40.72	C
ATOM	137	OD1	ASP	A	18	45.926	83.837	42.023	1.00	41.31	O
ATOM	138	OD2	ASP	A	18	47.088	84.072	43.881	1.00	41.97	O
ATOM	139	N	THR	A	19	50.407	84.566	39.705	1.00	38.21	N
ATOM	140	CA	THR	A	19	51.504	85.338	39.167	1.00	38.57	C
ATOM	141	C	THR	A	19	52.181	84.954	37.860	1.00	38.18	C
ATOM	142	O	THR	A	19	52.732	85.826	37.182	1.00	37.96	O
ATOM	143	CB	THR	A	19	52.578	85.499	40.264	1.00	39.06	C
ATOM	144	OG1	THR	A	19	53.135	84.214	40.593	1.00	40.61	O
ATOM	145	CG2	THR	A	19	51.929	86.070	41.527	1.00	38.62	C
ATOM	146	N	ASN	A	20	52.160	83.678	37.484	1.00	36.60	N
ATOM	147	CA	ASN	A	20	52.816	83.313	36.240	1.00	36.01	C
ATOM	148	C	ASN	A	20	51.999	83.817	35.062	1.00	34.92	C
ATOM	149	O	ASN	A	20	50.791	83.557	34.978	1.00	34.78	O
ATOM	150	CB	ASN	A	20	52.946	81.802	36.148	1.00	36.86	C
ATOM	151	CG	ASN	A	20	53.830	81.370	35.026	1.00	36.65	C
ATOM	152	OD1	ASN	A	20	53.858	81.977	33.958	1.00	37.10	O
ATOM	153	ND2	ASN	A	20	54.545	80.281	35.244	1.00	38.79	N
ATOM	154	N	PRO	A	21	52.633	84.575	34.145	1.00	34.02	N
ATOM	155	CA	PRO	A	21	51.900	85.085	32.978	1.00	33.59	C
ATOM	156	C	PRO	A	21	51.301	83.947	32.115	1.00	32.32	C
ATOM	157	O	PRO	A	21	50.394	84.171	31.305	1.00	30.74	O
ATOM	158	CB	PRO	A	21	52.948	85.904	32.228	1.00	34.27	C
ATOM	159	CG	PRO	A	21	54.259	85.299	32.669	1.00	35.00	C
ATOM	160	CD	PRO	A	21	54.046	84.995	34.120	1.00	34.41	C
ATOM	161	N	ARG	A	22	51.811	82.729	32.312	1.00	31.94	N
ATOM	162	CA	ARG	A	22	51.282	81.556	31.590	1.00	31.35	C
ATOM	163	C	ARG	A	22	49.779	81.417	31.825	1.00	30.81	C
ATOM	164	O	ARG	A	22	49.032	81.014	30.924	1.00	30.86	O
ATOM	165	CB	ARG	A	22	51.960	80.271	32.076	1.00	30.84	C
ATOM	166	CG	ARG	A	22	51.315	78.975	31.514	1.00	29.58	C
ATOM	167	CD	ARG	A	22	51.538	78.866	29.996	1.00	29.21	C
ATOM	168	NE	ARG	A	22	51.029	77.592	29.477	1.00	28.75	N



ATOM	169	CZ	ARG	A	22	49.752	77.376	29.140	1.00	29.25	C
ATOM	170	NH1	ARG	A	22	48.851	78.360	29.259	1.00	26.39	N
ATOM	171	NH2	ARG	A	22	49.363	76.160	28.710	1.00	27.04	N
ATOM	172	N	TRP	A	23	49.333	81.756	33.027	1.00	31.07	N
ATOM	173	CA	TRP	A	23	47.926	81.610	33.389	1.00	32.46	C
ATOM	174	C	TRP	A	23	47.051	82.852	33.266	1.00	33.48	C
ATOM	175	O	TRP	A	23	45.921	82.884	33.766	1.00	33.99	O
ATOM	176	CB	TRP	A	23	47.814	81.008	34.804	1.00	32.08	C
ATOM	177	CG	TRP	A	23	48.690	79.746	34.952	1.00	32.32	C
ATOM	178	CD1	TRP	A	23	49.706	79.542	35.850	1.00	31.64	C
ATOM	179	CD2	TRP	A	23	48.653	78.572	34.110	1.00	31.55	C
ATOM	180	NE1	TRP	A	23	50.310	78.321	35.617	1.00	32.13	N
ATOM	181	CE2	TRP	A	23	49.686	77.706	34.554	1.00	32.17	C
ATOM	182	CE3	TRP	A	23	47.850	78.176	33.027	1.00	31.06	C
ATOM	183	CZ2	TRP	A	23	49.942	76.457	33.945	1.00	31.46	C
ATOM	184	CZ3	TRP	A	23	48.103	76.927	32.414	1.00	31.21	C
ATOM	185	CH2	TRP	A	23	49.148	76.088	32.884	1.00	30.41	C
ATOM	186	N	LYS	A	24	47.568	83.869	32.592	1.00	35.10	N
ATOM	187	CA	LYS	A	24	46.805	85.098	32.362	1.00	36.91	C
ATOM	188	C	LYS	A	24	45.521	84.720	31.595	1.00	37.10	C
ATOM	189	O	LYS	A	24	45.584	84.046	30.567	1.00	37.11	O
ATOM	190	CB	LYS	A	24	47.656	86.058	31.521	1.00	38.76	C
ATOM	191	CG	LYS	A	24	46.875	87.185	30.858	1.00	42.20	C
ATOM	192	CD	LYS	A	24	47.393	88.557	31.299	1.00	44.91	C
ATOM	193	CE	LYS	A	24	46.747	89.700	30.502	1.00	46.09	C
ATOM	194	NZ	LYS	A	24	45.243	89.758	30.662	1.00	47.80	N
ATOM	195	N	ASP	A	25	44.354	85.124	32.082	1.00	37.36	N
ATOM	196	CA	ASP	A	25	43.123	84.797	31.353	1.00	37.51	C
ATOM	197	C	ASP	A	25	42.821	83.298	31.206	1.00	37.11	C
ATOM	198	O	ASP	A	25	42.235	82.862	30.204	1.00	36.17	O
ATOM	199	CB	ASP	A	25	43.152	85.429	29.958	1.00	39.67	C
ATOM	200	CG	ASP	A	25	43.079	86.962	30.017	1.00	41.79	C
ATOM	201	OD1	ASP	A	25	42.295	87.484	30.861	1.00	41.52	O
ATOM	202	OD2	ASP	A	25	43.804	87.615	29.228	1.00	43.09	O
ATOM	203	N	VAL	A	26	43.256	82.507	32.185	1.00	35.70	N
ATOM	204	CA	VAL	A	26	42.940	81.094	32.161	1.00	34.01	C
ATOM	205	C	VAL	A	26	41.938	80.890	33.294	1.00	33.38	C
ATOM	206	O	VAL	A	26	42.249	81.127	34.476	1.00	33.18	O
ATOM	207	CB	VAL	A	26	44.185	80.221	32.399	1.00	33.76	C
ATOM	208	CG1	VAL	A	26	43.769	78.795	32.767	1.00	33.10	C
ATOM	209	CG2	VAL	A	26	45.057	80.227	31.128	1.00	33.12	C
ATOM	210	N	THR	A	27	40.726	80.485	32.941	1.00	31.87	N
ATOM	211	CA	THR	A	27	39.733	80.213	33.961	1.00	31.94	C
ATOM	212	C	THR	A	27	39.793	78.760	34.414	1.00	31.87	O
ATOM	213	O	THR	A	27	39.869	77.836	33.586	1.00	31.55	C
ATOM	214	CB	THR	A	27	38.313	80.445	33.445	1.00	32.13	C
ATOM	215	OG1	THR	A	27	38.178	81.807	33.057	1.00	32.91	O
ATOM	216	CG2	THR	A	27	37.276	80.127	34.533	1.00	32.02	C
ATOM	217	N	ARG	A	28	39.751	78.571	35.724	1.00	30.93	N
ATOM	218	CA	ARG	A	28	39.710	77.248	36.328	1.00	31.05	C
ATOM	219	C	ARG	A	28	38.519	77.335	37.260	1.00	31.32	C
ATOM	220	O	ARG	A	28	38.508	78.171	38.176	1.00	31.92	O
ATOM	221	CB	ARG	A	28	40.988	76.943	37.116	1.00	29.82	C
ATOM	222	CG	ARG	A	28	42.216	76.759	36.244	1.00	28.87	C
ATOM	223	CD	ARG	A	28	43.455	76.665	37.101	1.00	28.48	C
ATOM	224	NE	ARG	A	28	44.613	75.998	36.480	1.00	28.31	N
ATOM	225	CZ	ARG	A	28	45.630	76.619	35.864	1.00	29.19	C
ATOM	226	NH1	ARG	A	28	45.641	77.965	35.751	1.00	28.04	N
ATOM	227	NH2	ARG	A	28	46.680	75.906	35.422	1.00	26.67	N
ATOM	228	N	THR	A	29	37.504	76.514	37.023	1.00	30.81	N
ATOM	229	CA	THR	A	29	36.342	76.552	37.873	1.00	30.85	C
ATOM	230	C	THR	A	29	36.484	75.725	39.135	1.00	30.94	C
ATOM	231	O	THR	A	29	35.576	75.723	39.957	1.00	31.38	O
ATOM	232	CB	THR	A	29	35.052	76.146	37.117	1.00	30.97	C
ATOM	233	OG1	THR	A	29	35.233	74.865	36.479	1.00	30.09	O
ATOM	234	CG2	THR	A	29	34.713	77.217	36.080	1.00	29.84	C
ATOM	235	N	TYR	A	30	37.618	75.047	39.299	1.00	30.02	N
ATOM	236	CA	TYR	A	30	37.880	74.249	40.498	1.00	29.58	C
ATOM	237	C	TYR	A	30	39.000	74.998	41.224	1.00	30.21	C
ATOM	238	O	TYR	A	30	39.602	75.911	40.659	1.00	30.72	O
ATOM	239	CB	TYR	A	30	38.349	72.822	40.141	1.00	27.23	C
ATOM	240	CG	TYR	A	30	39.398	72.811	39.054	1.00	26.60	C
ATOM	241	CD1	TYR	A	30	40.746	73.054	39.343	1.00	25.87	C
ATOM	242	CD2	TYR	A	30	39.038	72.567	37.722	1.00	26.16	C
ATOM	243	CE1	TYR	A	30	41.713	73.045	38.326	1.00	25.73	C
ATOM	244	CE2	TYR	A	30	40.003	72.562	36.695	1.00	26.33	C
ATOM	245	CZ	TYR	A	30	41.336	72.801	37.015	1.00	26.01	C
ATOM	246	OH	TYR	A	30	42.290	72.778	36.015	1.00	25.76	O
ATOM	247	N	SER	A	31	39.320	74.573	42.436	1.00	31.01	N
ATOM	248	CA	SER	A	31	40.337	75.259	43.248	1.00	32.09	C



ATOM	249	C	SER	A	31	41.709	74.611	43.325	1.00	32.45	C
ATOM	250	O	SER	A	31	41.892	73.429	42.966	1.00	31.29	O
ATOM	251	CB	SER	A	31	39.826	75.376	44.671	1.00	32.43	C
ATOM	252	OG	SER	A	31	39.792	74.074	45.243	1.00	32.95	O
ATOM	253	N	ALA	A	32	42.675	75.373	43.834	1.00	32.41	N
ATOM	254	CA	ALA	A	32	44.007	74.814	43.984	1.00	32.69	C
ATOM	255	C	ALA	A	32	43.918	73.644	44.967	1.00	33.10	C
ATOM	256	O	ALA	A	32	44.579	72.605	44.790	1.00	32.26	O
ATOM	257	CB	ALA	A	32	44.972	75.870	44.487	1.00	33.42	C
ATOM	258	N	GLU	A	33	43.084	73.787	46.002	1.00	33.01	N
ATOM	259	CA	GLU	A	33	42.961	72.712	46.976	1.00	33.95	C
ATOM	260	C	GLU	A	33	42.338	71.448	46.338	1.00	32.90	C
ATOM	261	O	GLU	A	33	42.645	70.323	46.726	1.00	32.03	O
ATOM	262	CB	GLU	A	33	42.141	73.182	48.190	1.00	36.09	C
ATOM	263	CG	GLU	A	33	42.054	72.140	49.322	1.00	40.87	C
ATOM	264	CD	GLU	A	33	43.347	71.259	49.519	1.00	44.11	C
ATOM	265	OE1	GLU	A	33	44.429	71.833	49.926	1.00	44.70	O
ATOM	266	OE2	GLU	A	33	43.251	69.991	49.265	1.00	43.28	O
ATOM	267	N	ASP	A	34	41.443	71.651	45.375	1.00	32.04	N
ATOM	268	CA	ASP	A	34	40.824	70.528	44.656	1.00	31.44	C
ATOM	269	C	ASP	A	34	41.939	69.765	43.913	1.00	30.08	C
ATOM	270	O	ASP	A	34	41.895	68.534	43.823	1.00	29.96	O
ATOM	271	CB	ASP	A	34	39.830	71.023	43.601	1.00	31.92	C
ATOM	272	CG	ASP	A	34	38.521	71.518	44.189	1.00	33.10	C
ATOM	273	OD1	ASP	A	34	38.155	71.068	45.305	1.00	33.43	O
ATOM	274	OD2	ASP	A	34	37.857	72.340	43.504	1.00	32.83	O
ATOM	275	N	VAL	A	35	42.917	70.491	43.378	1.00	28.50	N
ATOM	276	CA	VAL	A	35	44.015	69.845	42.630	1.00	27.98	C
ATOM	277	C	VAL	A	35	44.867	69.001	43.569	1.00	28.04	C
ATOM	278	O	VAL	A	35	45.123	67.814	43.304	1.00	26.71	O
ATOM	279	CB	VAL	A	35	44.890	70.892	41.887	1.00	26.62	C
ATOM	280	CG1	VAL	A	35	46.141	70.246	41.278	1.00	26.27	C
ATOM	281	CG2	VAL	A	35	44.064	71.526	40.773	1.00	26.39	C
ATOM	282	N	VAL	A	36	45.261	69.606	44.697	1.00	27.76	N
ATOM	283	CA	VAL	A	36	46.083	68.918	45.678	1.00	27.57	C
ATOM	284	C	VAL	A	36	45.381	67.674	46.206	1.00	26.93	C
ATOM	285	O	VAL	A	36	46.001	66.620	46.389	1.00	26.46	O
ATOM	286	CB	VAL	A	36	46.431	69.852	46.908	1.00	28.79	C
ATOM	287	CG1	VAL	A	36	47.056	69.003	48.064	1.00	28.46	C
ATOM	288	CG2	VAL	A	36	47.360	70.977	46.465	1.00	28.18	C
ATOM	289	N	ALA	A	37	44.092	67.790	46.455	1.00	26.81	N
ATOM	290	CA	ALA	A	37	43.335	66.653	46.976	1.00	27.59	C
ATOM	291	C	ALA	A	37	43.384	65.408	46.063	1.00	27.56	C
ATOM	292	O	ALA	A	37	43.202	64.301	46.533	1.00	27.91	O
ATOM	293	CB	ALA	A	37	41.891	67.069	47.216	1.00	27.10	C
ATOM	294	N	LEU	A	38	43.637	65.592	44.768	1.00	27.53	N
ATOM	295	CA	LEU	A	38	43.674	64.451	43.819	1.00	27.29	C
ATOM	296	C	LEU	A	38	45.081	63.926	43.538	1.00	27.75	C
ATOM	297	O	LEU	A	38	45.246	62.973	42.753	1.00	26.87	O
ATOM	298	CB	LEU	A	38	43.042	64.884	42.489	1.00	26.85	C
ATOM	299	CG	LEU	A	38	41.557	65.269	42.514	1.00	26.12	C
ATOM	300	CD1	LEU	A	38	41.178	65.921	41.203	1.00	25.65	C
ATOM	301	CD2	LEU	A	38	40.701	64.022	42.779	1.00	25.47	C
ATOM	302	N	GLN	A	39	46.097	64.530	44.168	1.00	27.04	N
ATOM	303	CA	GLN	A	39	47.476	64.142	43.895	1.00	27.87	C
ATOM	304	C	GLN	A	39	48.109	63.061	44.774	1.00	27.94	C
ATOM	305	O	GLN	A	39	49.273	62.736	44.605	1.00	28.36	O
ATOM	306	CB	GLN	A	39	48.380	65.392	43.902	1.00	27.99	C
ATOM	307	CG	GLN	A	39	48.166	66.368	42.733	1.00	28.54	C
ATOM	308	CD	GLN	A	39	49.075	67.603	42.855	1.00	29.74	C
ATOM	309	OE1	GLN	A	39	49.311	68.088	43.981	1.00	29.55	O
ATOM	310	NE2	GLN	A	39	49.568	68.127	41.716	1.00	28.70	N
ATOM	311	N	GLY	A	40	47.362	62.506	45.710	1.00	28.51	N
ATOM	312	CA	GLY	A	40	47.947	61.486	46.550	1.00	28.79	C
ATOM	313	C	GLY	A	40	49.131	62.064	47.318	1.00	30.08	C
ATOM	314	O	GLY	A	40	49.189	63.277	47.584	1.00	29.54	O
ATOM	315	N	SER	A	41	50.114	61.237	47.651	1.00	29.43	N
ATOM	316	CA	SER	A	41	51.213	61.800	48.412	1.00	29.98	C
ATOM	317	C	SER	A	41	52.537	61.891	47.646	1.00	29.68	C
ATOM	318	O	SER	A	41	53.550	62.334	48.192	1.00	29.35	O
ATOM	319	CB	SER	A	41	51.348	61.015	49.710	1.00	30.91	C
ATOM	320	OG	SER	A	41	51.834	59.740	49.450	1.00	31.77	O
ATOM	321	N	VAL	A	42	52.522	61.513	46.368	1.00	27.86	N
ATOM	322	CA	VAL	A	42	53.724	61.594	45.548	1.00	27.79	C
ATOM	323	C	VAL	A	42	53.270	62.010	44.165	1.00	27.76	C
ATOM	324	O	VAL	A	42	52.273	61.488	43.670	1.00	26.61	O
ATOM	325	CB	VAL	A	42	54.469	60.227	45.463	1.00	27.77	C
ATOM	326	CG1	VAL	A	42	55.694	60.327	44.510	1.00	27.60	C
ATOM	327	CG2	VAL	A	42	54.976	59.838	46.844	1.00	28.77	C
ATOM	328	N	VAL	A	43	53.953	62.994	43.575	1.00	26.73	N



ATOM	329	CA	VAL	A	43	53.626	63.448	42.239	1.00	25.96	C
ATOM	330	C	VAL	A	43	54.807	63.084	41.342	1.00	26.24	C
ATOM	331	O	VAL	A	43	55.908	63.571	41.542	1.00	24.85	O
ATOM	332	CB	VAL	A	43	53.433	64.999	42.170	1.00	27.03	C
ATOM	333	CG1	VAL	A	43	53.328	65.456	40.671	1.00	26.40	C
ATOM	334	CG2	VAL	A	43	52.181	65.393	42.945	1.00	25.47	C
ATOM	335	N	GLU	A	44	54.593	62.166	40.396	1.00	25.21	N
ATOM	336	CA	GLU	A	44	55.634	61.821	39.458	1.00	24.31	C
ATOM	337	C	GLU	A	44	55.928	63.065	38.585	1.00	24.70	C
ATOM	338	O	GLU	A	44	54.993	63.767	38.113	1.00	24.11	O
ATOM	339	CB	GLU	A	44	55.173	60.681	38.523	1.00	23.11	C
ATOM	340	CG	GLU	A	44	55.129	59.286	39.150	1.00	23.21	C
ATOM	341	CD	GLU	A	44	54.649	58.241	38.134	1.00	24.19	C
ATOM	342	OE1	GLU	A	44	53.424	58.214	37.876	1.00	24.14	O
ATOM	343	OE2	GLU	A	44	55.482	57.477	37.596	1.00	22.91	O
ATOM	344	N	GLU	A	45	57.210	63.323	38.374	1.00	24.55	N
ATOM	345	CA	GLU	A	45	57.662	64.392	37.488	1.00	25.27	C
ATOM	346	C	GLU	A	45	57.532	63.874	36.034	1.00	24.99	C
ATOM	347	O	GLU	A	45	57.861	62.725	35.748	1.00	26.08	O
ATOM	348	CB	GLU	A	45	59.139	64.706	37.775	1.00	27.46	C
ATOM	349	CG	GLU	A	45	59.836	65.582	36.709	1.00	30.80	C
ATOM	350	CD	GLU	A	45	59.272	67.004	36.612	1.00	34.09	C
ATOM	351	OE1	GLU	A	45	58.180	67.253	37.145	1.00	36.66	O
ATOM	352	OE2	GLU	A	45	59.909	67.889	35.978	1.00	36.29	O
ATOM	353	N	HIS	A	46	57.033	64.700	35.127	1.00	23.76	N
ATOM	354	CA	HIS	A	46	56.892	64.322	33.716	1.00	23.69	C
ATOM	355	C	HIS	A	46	57.786	65.301	32.955	1.00	23.50	C
ATOM	356	O	HIS	A	46	57.321	66.329	32.448	1.00	23.36	O
ATOM	357	CB	HIS	A	46	55.412	64.467	33.296	1.00	23.44	C
ATOM	358	CG	HIS	A	46	54.496	63.552	34.046	1.00	23.04	C
ATOM	359	ND1	HIS	A	46	54.567	62.175	33.932	1.00	23.99	N
ATOM	360	CD2	HIS	A	46	53.492	63.808	34.915	1.00	23.57	C
ATOM	361	CE1	HIS	A	46	53.635	61.628	34.698	1.00	23.32	C
ATOM	362	NE2	HIS	A	46	52.966	62.597	35.300	1.00	23.57	N
ATOM	363	N	THR	A	47	59.077	64.970	32.889	1.00	24.00	N
ATOM	364	CA	THR	A	47	60.066	65.857	32.280	1.00	24.28	C
ATOM	365	C	THR	A	47	59.748	66.286	30.866	1.00	24.52	C
ATOM	366	O	THR	A	47	59.715	67.503	30.556	1.00	23.41	O
ATOM	367	CB	THR	A	47	61.451	65.190	32.319	1.00	24.61	C
ATOM	368	OG1	THR	A	47	61.728	64.835	33.676	1.00	24.71	O
ATOM	369	CG2	THR	A	47	62.555	66.118	31.779	1.00	24.41	C
ATOM	370	N	LEU	A	48	59.492	65.305	30.002	1.00	23.24	N
ATOM	371	CA	LEU	A	48	59.234	65.656	28.620	1.00	23.06	C
ATOM	372	C	LEU	A	48	57.959	66.438	28.447	1.00	22.59	C
ATOM	373	O	LEU	A	48	57.885	67.313	27.589	1.00	22.99	O
ATOM	374	CB	LEU	A	48	59.247	64.404	27.728	1.00	23.23	C
ATOM	375	CG	LEU	A	48	60.601	63.645	27.684	1.00	24.81	C
ATOM	376	CD1	LEU	A	48	60.582	62.575	26.581	1.00	25.06	C
ATOM	377	CD2	LEU	A	48	61.771	64.627	27.368	1.00	24.85	C
ATOM	378	N	ALA	A	49	56.945	66.138	29.241	1.00	23.03	N
ATOM	379	CA	ALA	A	49	55.698	66.882	29.113	1.00	23.20	C
ATOM	380	C	ALA	A	49	55.910	68.321	29.593	1.00	23.86	C
ATOM	381	O	ALA	A	49	55.324	69.244	29.046	1.00	23.45	O
ATOM	382	CB	ALA	A	49	54.593	66.244	29.932	1.00	22.10	C
ATOM	383	N	ARG	A	50	56.692	68.496	30.652	1.00	24.39	N
ATOM	384	CA	ARG	A	50	56.912	69.847	31.168	1.00	25.08	C
ATOM	385	C	ARG	A	50	57.749	70.652	30.177	1.00	24.75	C
ATOM	386	O	ARG	A	50	57.350	71.737	29.730	1.00	24.90	O
ATOM	387	CB	ARG	A	50	57.612	69.763	32.520	1.00	26.21	C
ATOM	388	CG	ARG	A	50	58.447	70.975	32.898	1.00	29.17	C
ATOM	389	CD	ARG	A	50	58.750	70.873	34.382	1.00	31.92	C
ATOM	390	NE	ARG	A	50	57.572	71.495	34.920	1.00	36.55	N
ATOM	391	CZ	ARG	A	50	56.696	70.969	35.748	1.00	35.08	C
ATOM	392	NH1	ARG	A	50	56.813	69.727	36.232	1.00	35.07	N
ATOM	393	NH2	ARG	A	50	55.665	71.735	36.035	1.00	35.75	N
ATOM	394	N	ARG	A	51	58.891	70.106	29.801	1.00	24.62	N
ATOM	395	CA	ARG	A	51	59.778	70.799	28.877	1.00	24.96	C
ATOM	396	C	ARG	A	51	59.084	71.094	27.542	1.00	25.46	C
ATOM	397	O	ARG	A	51	59.177	72.216	27.002	1.00	24.49	O
ATOM	398	CB	ARG	A	51	61.047	69.967	28.649	1.00	24.91	C
ATOM	399	CG	ARG	A	51	62.158	70.664	27.818	1.00	26.14	C
ATOM	400	CD	ARG	A	51	63.374	69.727	27.694	1.00	28.39	C
ATOM	401	NE	ARG	A	51	64.542	70.350	27.088	1.00	29.57	N
ATOM	402	CZ	ARG	A	51	64.686	70.645	25.794	1.00	31.29	C
ATOM	403	NH1	ARG	A	51	63.725	70.375	24.896	1.00	30.48	N
ATOM	404	NH2	ARG	A	51	65.803	71.262	25.394	1.00	31.56	N
ATOM	405	N	GLY	A	52	58.346	70.099	27.011	1.00	24.31	N
ATOM	406	CA	GLY	A	52	57.657	70.309	25.745	1.00	22.90	C
ATOM	407	C	GLY	A	52	56.653	71.447	25.792	1.00	23.42	C
ATOM	408	O	GLY	A	52	56.635	72.334	24.909	1.00	23.95	O



ATOM	409	N	ALA	A	53	55.816	71.419	26.818	1.00	23.31	N
ATOM	410	CA	ALA	A	53	54.789	72.427	27.013	1.00	24.78	C
ATOM	411	C	ALA	A	53	55.426	73.831	27.201	1.00	24.91	C
ATOM	412	O	ALA	A	53	54.918	74.799	26.651	1.00	25.45	O
ATOM	413	CB	ALA	A	53	53.915	72.071	28.242	1.00	22.48	C
ATOM	414	N	GLU	A	54	56.498	73.936	27.993	1.00	25.81	N
ATOM	415	CA	GLU	A	54	57.152	75.255	28.199	1.00	27.11	C
ATOM	416	C	GLU	A	54	57.751	75.747	26.889	1.00	27.11	C
ATOM	417	O	GLU	A	54	57.596	76.915	26.537	1.00	27.51	O
ATOM	418	CB	GLU	A	54	58.241	75.187	29.314	1.00	27.29	C
ATOM	419	CG	GLU	A	54	57.649	74.806	30.648	1.00	28.53	C
ATOM	420	CD	GLU	A	54	58.630	74.883	31.811	1.00	29.39	C
ATOM	421	OE1	GLU	A	54	59.838	74.892	31.597	1.00	31.35	O
ATOM	422	OE2	GLU	A	54	58.173	74.915	32.958	1.00	31.01	O
ATOM	423	N	VAL	A	55	58.409	74.851	26.154	1.00	27.29	N
ATOM	424	CA	VAL	A	55	59.011	75.212	24.881	1.00	27.69	C
ATOM	425	C	VAL	A	55	57.954	75.639	23.878	1.00	28.42	C
ATOM	426	O	VAL	A	55	58.093	76.679	23.199	1.00	29.33	O
ATOM	427	CB	VAL	A	55	59.838	74.049	24.284	1.00	27.44	C
ATOM	428	CG1	VAL	A	55	60.195	74.362	22.809	1.00	27.33	C
ATOM	429	CG2	VAL	A	55	61.118	73.858	25.095	1.00	27.59	C
ATOM	430	N	LEU	A	56	56.870	74.875	23.792	1.00	28.25	N
ATOM	431	CA	LEU	A	56	55.815	75.224	22.857	1.00	27.67	C
ATOM	432	C	LEU	A	56	55.241	76.613	23.163	1.00	28.39	C
ATOM	433	O	LEU	A	56	55.067	77.434	22.260	1.00	28.14	O
ATOM	434	CB	LEU	A	56	54.688	74.178	22.912	1.00	27.52	C
ATOM	435	CG	LEU	A	56	53.459	74.366	22.000	1.00	27.49	C
ATOM	436	CD1	LEU	A	56	53.879	74.500	20.543	1.00	27.11	C
ATOM	437	CD2	LEU	A	56	52.517	73.164	22.179	1.00	27.69	C
ATOM	438	N	TRP	A	57	54.914	76.854	24.433	1.00	28.69	N
ATOM	439	CA	TRP	A	57	54.341	78.129	24.849	1.00	29.01	C
ATOM	440	C	TRP	A	57	55.278	79.301	24.454	1.00	29.61	C
ATOM	441	O	TRP	A	57	54.835	80.286	23.901	1.00	29.36	O
ATOM	442	CB	TRP	A	57	54.094	78.117	26.361	1.00	29.05	C
ATOM	443	CG	TRP	A	57	53.403	79.370	26.852	1.00	29.41	C
ATOM	444	CD1	TRP	A	57	53.959	80.374	27.609	1.00	29.57	C
ATOM	445	CD2	TRP	A	57	52.036	79.742	26.640	1.00	29.44	C
ATOM	446	NE1	TRP	A	57	53.018	81.330	27.891	1.00	29.31	N
ATOM	447	CE2	TRP	A	57	51.829	80.973	27.310	1.00	30.21	C
ATOM	448	CE3	TRP	A	57	50.962	79.161	25.950	1.00	30.05	C
ATOM	449	CZ2	TRP	A	57	50.602	81.622	27.309	1.00	30.15	C
ATOM	450	CZ3	TRP	A	57	49.731	79.821	25.950	1.00	30.28	C
ATOM	451	CH2	TRP	A	57	49.567	81.036	26.629	1.00	30.25	C
ATOM	452	N	GLU	A	58	56.567	79.174	24.714	1.00	30.56	N
ATOM	453	CA	GLU	A	58	57.482	80.225	24.333	1.00	32.54	C
ATOM	454	C	GLU	A	58	57.539	80.401	22.813	1.00	32.68	C
ATOM	455	O	GLU	A	58	57.560	81.559	22.325	1.00	31.98	O
ATOM	456	CB	GLU	A	58	58.890	79.953	24.894	1.00	34.36	C
ATOM	457	CG	GLU	A	58	58.933	79.975	26.421	1.00	37.61	C
ATOM	458	CD	GLU	A	58	58.338	81.270	27.018	1.00	40.17	C
ATOM	459	OE1	GLU	A	58	58.842	82.370	26.645	1.00	42.68	O
ATOM	460	OE2	GLU	A	58	57.377	81.202	27.853	1.00	40.83	O
ATOM	461	N	Gln	A	59	57.574	79.282	22.071	1.00	31.90	N
ATOM	462	CA	Gln	A	59	57.642	79.344	20.611	1.00	31.56	C
ATOM	463	C	Gln	A	59	56.425	80.056	20.057	1.00	31.76	C
ATOM	464	O	Gln	A	59	56.531	80.785	19.076	1.00	30.81	O
ATOM	465	CB	Gln	A	59	57.713	77.947	19.972	1.00	32.08	C
ATOM	466	CG	Gln	A	59	59.023	77.184	20.199	1.00	32.47	C
ATOM	467	CD	Gln	A	59	58.990	75.787	19.561	1.00	33.62	C
ATOM	468	OE1	Gln	A	59	57.936	75.181	19.444	1.00	35.27	O
ATOM	469	NE2	Gln	A	59	60.132	75.278	19.178	1.00	33.41	N
ATOM	470	N	LEU	A	60	55.262	79.832	20.672	1.00	31.47	N
ATOM	471	CA	LEU	A	60	54.026	80.457	20.206	1.00	31.18	C
ATOM	472	C	LEU	A	60	54.072	81.992	20.345	1.00	32.27	C
ATOM	473	O	LEU	A	60	53.311	82.706	19.679	1.00	31.45	O
ATOM	474	CB	LEU	A	60	52.819	79.913	20.995	1.00	29.98	C
ATOM	475	CG	LEU	A	60	52.486	78.436	20.695	1.00	29.56	C
ATOM	476	CD1	LEU	A	60	51.452	77.953	21.709	1.00	28.43	C
ATOM	477	CD2	LEU	A	60	51.969	78.298	19.226	1.00	28.10	C
ATOM	478	N	HIS	A	61	54.937	82.482	21.227	1.00	33.04	N
ATOM	479	CA	HIS	A	61	55.074	83.929	21.432	1.00	34.57	C
ATOM	480	C	HIS	A	61	56.323	84.464	20.704	1.00	35.75	C
ATOM	481	O	HIS	A	61	56.304	85.584	20.193	1.00	36.66	O
ATOM	482	CB	HIS	A	61	55.151	84.240	22.935	1.00	34.39	C
ATOM	483	CG	HIS	A	61	53.910	83.861	23.674	1.00	35.57	C
ATOM	484	ND1	HIS	A	61	52.857	84.734	23.866	1.00	36.78	N
ATOM	485	CD2	HIS	A	61	53.507	82.674	24.184	1.00	35.18	C
ATOM	486	CE1	HIS	A	61	51.859	84.099	24.464	1.00	36.42	C
ATOM	487	NE2	HIS	A	61	52.231	82.846	24.666	1.00	36.36	N
ATOM	488	N	ASP	A	62	57.377	83.658	20.608	1.00	35.99	N



ATOM	489	CA	ASP	A	62	58.622	84.091	19.951	1.00	36.22	C
ATOM	490	C	ASP	A	62	58.694	83.984	18.424	1.00	36.47	C
ATOM	491	O	ASP	A	62	59.342	84.822	17.778	1.00	35.78	O
ATOM	492	CB	ASP	A	62	59.814	83.331	20.507	1.00	36.90	C
ATOM	493	CG	ASP	A	62	59.998	83.544	21.973	1.00	38.60	C
ATOM	494	OD1	ASP	A	62	59.309	84.417	22.531	1.00	40.44	O
ATOM	495	OD2	ASP	A	62	60.837	82.851	22.589	1.00	39.42	O
ATOM	496	N	LEU	A	63	58.068	82.958	17.841	1.00	35.12	N
ATOM	497	CA	LEU	A	63	58.122	82.778	16.387	1.00	35.05	C
ATOM	498	C	LEU	A	63	56.956	83.451	15.713	1.00	34.54	C
ATOM	499	O	LEU	A	63	55.955	83.719	16.355	1.00	33.97	O
ATOM	500	CB	LEU	A	63	58.112	81.288	16.035	1.00	35.30	C
ATOM	501	CG	LEU	A	63	59.162	80.491	16.804	1.00	36.07	C
ATOM	502	CD1	LEU	A	63	59.183	79.050	16.312	1.00	36.12	C
ATOM	503	CD2	LEU	A	63	60.522	81.150	16.607	1.00	36.23	C
ATOM	504	N	GLU	A	64	57.079	83.731	14.425	1.00	34.74	N
ATOM	505	CA	GLU	A	64	55.972	84.364	13.679	1.00	35.42	C
ATOM	506	C	GLU	A	64	54.735	83.435	13.782	1.00	34.21	C
ATOM	507	O	GLU	A	64	53.594	83.874	13.847	1.00	34.27	O
ATOM	508	CB	GLU	A	64	56.373	84.551	12.214	1.00	37.25	C
ATOM	509	CG	GLU	A	64	55.705	85.738	11.555	1.00	40.33	C
ATOM	510	CD	GLU	A	64	56.256	86.020	10.151	1.00	42.23	C
ATOM	511	OE1	GLU	A	64	57.452	85.703	9.896	1.00	43.93	O
ATOM	512	OE2	GLU	A	64	55.504	86.563	9.310	1.00	41.78	O
ATOM	513	N	TRP	A	65	55.005	82.140	13.742	1.00	33.27	N
ATOM	514	CA	TRP	A	65	54.002	81.095	13.917	1.00	31.89	C
ATOM	515	C	TRP	A	65	54.770	79.776	13.990	1.00	31.49	C
ATOM	516	O	TRP	A	65	55.946	79.684	13.571	1.00	30.98	O
ATOM	517	CB	TRP	A	65	52.938	81.083	12.790	1.00	31.46	C
ATOM	518	CG	TRP	A	65	53.315	80.479	11.464	1.00	32.61	C
ATOM	519	CD1	TRP	A	65	53.077	79.185	11.037	1.00	32.72	C
ATOM	520	CD2	TRP	A	65	53.908	81.162	10.341	1.00	32.47	C
ATOM	521	NE1	TRP	A	65	53.483	79.035	9.725	1.00	32.21	N
ATOM	522	CE2	TRP	A	65	53.996	80.228	9.277	1.00	33.16	C
ATOM	523	CE3	TRP	A	65	54.367	82.474	10.131	1.00	32.81	C
ATOM	524	CZ2	TRP	A	65	54.528	80.570	8.012	1.00	33.17	C
ATOM	525	CZ3	TRP	A	65	54.897	82.817	8.873	1.00	32.86	C
ATOM	526	CH2	TRP	A	65	54.971	81.863	7.835	1.00	33.57	C
ATOM	527	N	VAL	A	66	54.118	78.777	14.568	1.00	30.16	N
ATOM	528	CA	VAL	A	66	54.701	77.446	14.717	1.00	29.47	C
ATOM	529	C	VAL	A	66	53.973	76.552	13.724	1.00	28.68	C
ATOM	530	O	VAL	A	66	52.744	76.509	13.728	1.00	28.30	O
ATOM	531	CB	VAL	A	66	54.446	76.903	16.146	1.00	29.61	C
ATOM	532	CG1	VAL	A	66	54.984	75.476	16.282	1.00	28.96	C
ATOM	533	CG2	VAL	A	66	55.087	77.838	17.165	1.00	30.18	C
ATOM	534	N	ASN	A	67	54.694	75.863	12.851	1.00	28.10	N
ATOM	535	CA	ASN	A	67	53.967	74.991	11.948	1.00	27.86	C
ATOM	536	C	ASN	A	67	54.471	73.557	12.081	1.00	27.15	C
ATOM	537	O	ASN	A	67	55.588	73.290	12.577	1.00	26.92	O
ATOM	538	CB	ASN	A	67	53.964	75.508	10.488	1.00	28.62	C
ATOM	539	CG	ASN	A	67	55.333	75.609	9.887	1.00	30.58	C
ATOM	540	OD1	ASN	A	67	56.347	75.484	10.590	1.00	32.95	O
ATOM	541	ND2	ASN	A	67	55.389	75.846	8.559	1.00	30.63	N
ATOM	542	N	ALA	A	68	53.615	72.632	11.674	1.00	25.79	N
ATOM	543	CA	ALA	A	68	53.928	71.222	11.845	1.00	25.09	C
ATOM	544	C	ALA	A	68	53.249	70.349	10.810	1.00	24.44	C
ATOM	545	O	ALA	A	68	52.361	70.810	10.054	1.00	24.88	O
ATOM	546	CB	ALA	A	68	53.502	70.791	13.272	1.00	24.28	C
ATOM	547	N	LEU	A	69	53.671	69.083	10.791	1.00	24.07	N
ATOM	548	CA	LEU	A	69	53.152	68.077	9.852	1.00	23.35	C
ATOM	549	C	LEU	A	69	52.789	66.825	10.674	1.00	23.04	C
ATOM	550	O	LEU	A	69	53.535	66.458	11.585	1.00	21.54	O
ATOM	551	CB	LEU	A	69	54.238	67.680	8.826	1.00	22.58	C
ATOM	552	CG	LEU	A	69	54.692	68.820	7.867	1.00	24.13	C
ATOM	553	CD1	LEU	A	69	55.767	68.303	6.934	1.00	22.77	C
ATOM	554	CD2	LEU	A	69	53.520	69.347	7.063	1.00	22.64	C
ATOM	555	N	GLY	A	70	51.652	66.201	10.354	1.00	23.08	N
ATOM	556	CA	GLY	A	70	51.252	64.990	11.075	1.00	23.52	C
ATOM	557	C	GLY	A	70	52.316	63.890	10.955	1.00	23.67	C
ATOM	558	O	GLY	A	70	52.758	63.530	9.860	1.00	24.54	O
ATOM	559	N	ALA	A	71	52.754	63.375	12.094	1.00	22.69	N
ATOM	560	CA	ALA	A	71	53.737	62.318	12.140	1.00	22.69	C
ATOM	561	C	ALA	A	71	53.074	61.067	12.756	1.00	22.63	C
ATOM	562	O	ALA	A	71	52.383	61.184	13.796	1.00	21.73	O
ATOM	563	CB	ALA	A	71	54.933	62.773	13.030	1.00	22.47	C
ATOM	564	N	LEU	A	72	53.275	59.894	12.141	1.00	22.42	N
ATOM	565	CA	LEU	A	72	52.677	58.672	12.694	1.00	22.25	C
ATOM	566	C	LEU	A	72	53.703	57.628	13.099	1.00	22.08	C
ATOM	567	O	LEU	A	72	53.313	56.578	13.604	1.00	21.68	O
ATOM	568	CB	LEU	A	72	51.635	58.035	11.735	1.00	21.83	C



ATOM	569	CG	LEU	A	72	52.171	57.508	10.399	1.00	22.30	C
ATOM	570	CD1	LEU	A	72	51.799	56.000	10.254	1.00	22.27	C
ATOM	571	CD2	LEU	A	72	51.576	58.328	9.252	1.00	22.56	C
ATOM	572	N	THR	A	73	54.999	57.884	12.845	1.00	21.45	N
ATOM	573	CA	THR	A	73	56.047	56.984	13.296	1.00	21.34	C
ATOM	574	C	THR	A	73	57.183	57.838	13.882	1.00	21.65	C
ATOM	575	O	THR	A	73	57.278	59.047	13.599	1.00	20.20	O
ATOM	576	CB	THR	A	73	56.652	56.033	12.203	1.00	22.36	C
ATOM	577	OG1	THR	A	73	57.686	56.715	11.452	1.00	22.79	O
ATOM	578	CG2	THR	A	73	55.570	55.512	11.268	1.00	20.99	C
ATOM	579	N	GLY	A	74	58.015	57.210	14.717	1.00	20.61	N
ATOM	580	CA	GLY	A	74	59.123	57.932	15.332	1.00	21.31	C
ATOM	581	C	GLY	A	74	60.094	58.506	14.287	1.00	21.58	C
ATOM	582	O	GLY	A	74	60.497	59.680	14.367	1.00	21.28	O
ATOM	583	N	ASN	A	75	60.478	57.690	13.305	1.00	21.58	N
ATOM	584	CA	ASN	A	75	61.390	58.165	12.268	1.00	22.06	C
ATOM	585	C	ASN	A	75	60.786	59.376	11.529	1.00	22.67	C
ATOM	586	O	ASN	A	75	61.519	60.291	11.156	1.00	22.43	O
ATOM	587	CB	ASN	A	75	61.675	57.061	11.245	1.00	21.81	C
ATOM	588	CG	ASN	A	75	62.630	56.021	11.764	1.00	21.63	C
ATOM	589	OD1	ASN	A	75	62.944	55.965	12.979	1.00	23.92	O
ATOM	590	ND2	ASN	A	75	63.077	55.167	10.881	1.00	20.17	N
ATOM	591	N	MET	A	76	59.472	59.378	11.310	1.00	22.62	N
ATOM	592	CA	MET	A	76	58.831	60.497	10.614	1.00	23.52	C
ATOM	593	C	MET	A	76	59.090	61.769	11.399	1.00	23.74	C
ATOM	594	O	MET	A	76	59.359	62.814	10.796	1.00	23.88	O
ATOM	595	CB	MET	A	76	57.303	60.371	10.540	1.00	24.30	C
ATOM	596	CG	MET	A	76	56.811	59.588	9.406	1.00	25.58	C
ATOM	597	SD	MET	A	76	55.060	59.904	9.105	1.00	24.97	S
ATOM	598	CE	MET	A	76	54.905	58.515	7.926	1.00	25.22	C
ATOM	599	N	ALA	A	77	58.955	61.688	12.725	1.00	22.97	N
ATOM	600	CA	ALA	A	77	59.169	62.881	13.562	1.00	23.67	C
ATOM	601	C	ALA	A	77	60.631	63.322	13.535	1.00	23.45	C
ATOM	602	O	ALA	A	77	60.911	64.530	13.511	1.00	23.66	O
ATOM	603	CB	ALA	A	77	58.741	62.633	14.980	1.00	22.89	C
ATOM	604	N	VAL	A	78	61.540	62.348	13.577	1.00	22.87	N
ATOM	605	CA	VAL	A	78	62.964	62.655	13.509	1.00	23.34	C
ATOM	606	C	VAL	A	78	63.280	63.455	12.222	1.00	23.67	C
ATOM	607	O	VAL	A	78	64.018	64.474	12.281	1.00	22.88	O
ATOM	608	CB	VAL	A	78	63.829	61.378	13.495	1.00	23.16	C
ATOM	609	CG1	VAL	A	78	65.313	61.734	13.108	1.00	23.47	C
ATOM	610	CG2	VAL	A	78	63.804	60.703	14.873	1.00	23.53	C
ATOM	611	N	GLN	A	79	62.748	63.010	11.073	1.00	23.04	N
ATOM	612	CA	GLN	A	79	63.025	63.721	9.825	1.00	23.92	C
ATOM	613	C	GLN	A	79	62.406	65.115	9.827	1.00	25.01	C
ATOM	614	O	GLN	A	79	62.984	66.066	9.242	1.00	25.31	O
ATOM	615	CB	GLN	A	79	62.555	62.924	8.593	1.00	24.11	C
ATOM	616	CG	GLN	A	79	63.276	61.576	8.402	1.00	24.75	C
ATOM	617	CD	GLN	A	79	64.776	61.733	8.333	1.00	25.89	C
ATOM	618	OE1	GLN	A	79	65.271	62.798	7.949	1.00	26.35	O
ATOM	619	NE2	GLN	A	79	65.518	60.670	8.659	1.00	25.50	N
ATOM	620	N	GLN	A	80	61.258	65.274	10.494	1.00	24.97	N
ATOM	621	CA	GLN	A	80	60.636	66.581	10.566	1.00	25.32	C
ATOM	622	C	GLN	A	80	61.555	67.560	11.299	1.00	26.04	C
ATOM	623	O	GLN	A	80	61.739	68.706	10.864	1.00	26.02	O
ATOM	624	CB	GLN	A	80	59.266	66.498	11.246	1.00	24.66	C
ATOM	625	CG	GLN	A	80	58.226	65.781	10.339	1.00	23.39	C
ATOM	626	CD	GLN	A	80	56.888	65.529	11.058	1.00	24.47	C
ATOM	627	OE1	GLN	A	80	56.733	65.846	12.252	1.00	25.18	O
ATOM	628	NE2	GLN	A	80	55.926	64.968	10.336	1.00	22.83	N
ATOM	629	N	VAL	A	81	62.156	67.108	12.384	1.00	26.17	N
ATOM	630	CA	VAL	A	81	63.046	67.962	13.162	1.00	26.86	C
ATOM	631	C	VAL	A	81	64.361	68.170	12.394	1.00	28.03	C
ATOM	632	O	VAL	A	81	64.868	69.289	12.307	1.00	28.07	O
ATOM	633	CB	VAL	A	81	63.305	67.339	14.555	1.00	26.32	C
ATOM	634	CG1	VAL	A	81	64.359	68.134	15.328	1.00	27.82	C
ATOM	635	CG2	VAL	A	81	62.000	67.354	15.343	1.00	25.31	C
ATOM	636	N	ARG	A	82	64.892	67.105	11.815	1.00	27.89	N
ATOM	637	CA	ARG	A	82	66.127	67.213	11.051	1.00	28.90	C
ATOM	638	C	ARG	A	82	65.960	68.210	9.888	1.00	29.16	C
ATOM	639	O	ARG	A	82	66.907	68.909	9.517	1.00	28.82	O
ATOM	640	CB	ARG	A	82	66.542	65.827	10.544	1.00	29.76	C
ATOM	641	CG	ARG	A	82	67.605	65.823	9.463	1.00	32.78	C
ATOM	642	CD	ARG	A	82	68.834	66.500	9.933	1.00	34.59	C
ATOM	643	NE	ARG	A	82	69.651	65.593	10.703	1.00	36.91	N
ATOM	644	CZ	ARG	A	82	70.702	65.987	11.419	1.00	37.89	C
ATOM	645	NH1	ARG	A	82	71.044	67.263	11.460	1.00	39.07	N
ATOM	646	NH2	ARG	A	82	71.419	65.107	12.074	1.00	37.91	N
ATOM	647	N	ALA	A	83	64.746	68.289	9.352	1.00	28.54	N
ATOM	648	CA	ALA	A	83	64.419	69.160	8.237	1.00	28.90	C



ATOM	649	C	ALA	A	83	64.179	70.595	8.696	1.00	29.38	C
ATOM	650	O	ALA	A	83	63.959	71.474	7.867	1.00	29.70	O
ATOM	651	CB	ALA	A	83	63.183	68.643	7.517	1.00	28.54	C
ATOM	652	N	GLY	A	84	64.174	70.815	10.009	1.00	29.48	N
ATOM	653	CA	GLY	A	84	63.972	72.157	10.519	1.00	30.25	C
ATOM	654	C	GLY	A	84	62.651	72.510	11.182	1.00	30.76	C
ATOM	655	O	GLY	A	84	62.497	73.665	11.621	1.00	30.71	O
ATOM	656	N	LEU	A	85	61.697	71.570	11.283	1.00	29.81	N
ATOM	657	CA	LEU	A	85	60.440	71.924	11.930	1.00	28.98	C
ATOM	658	C	LEU	A	85	60.633	71.984	13.431	1.00	28.78	C
ATOM	659	O	LEU	A	85	61.505	71.324	13.987	1.00	29.15	O
ATOM	660	CB	LEU	A	85	59.312	70.969	11.534	1.00	28.82	C
ATOM	661	CG	LEU	A	85	59.016	71.025	10.029	1.00	28.67	C
ATOM	662	CD1	LEU	A	85	57.828	70.110	9.741	1.00	27.73	C
ATOM	663	CD2	LEU	A	85	58.730	72.512	9.569	1.00	28.37	C
ATOM	664	N	LYS	A	86	59.813	72.791	14.088	1.00	28.97	N
ATOM	665	CA	LYS	A	86	59.975	73.047	15.507	1.00	29.73	C
ATOM	666	C	LYS	A	86	58.937	72.445	16.418	1.00	29.15	C
ATOM	667	O	LYS	A	86	58.971	72.677	17.624	1.00	29.91	O
ATOM	668	CB	LYS	A	86	59.989	74.558	15.737	1.00	31.91	C
ATOM	669	CG	LYS	A	86	61.071	75.330	14.957	1.00	36.03	C
ATOM	670	CD	LYS	A	86	62.485	74.832	15.298	1.00	38.66	C
ATOM	671	CE	LYS	A	86	63.563	75.798	14.759	1.00	40.88	C
ATOM	672	NZ	LYS	A	86	63.420	77.124	15.463	1.00	43.09	N
ATOM	673	N	ALA	A	87	57.982	71.726	15.841	1.00	27.60	N
ATOM	674	CA	ALA	A	87	56.946	71.075	16.636	1.00	26.59	C
ATOM	675	C	ALA	A	87	56.506	69.884	15.792	1.00	26.00	C
ATOM	676	O	ALA	A	87	56.755	69.859	14.600	1.00	24.99	O
ATOM	677	CB	ALA	A	87	55.772	72.014	16.874	1.00	25.40	C
ATOM	678	N	ILE	A	88	55.872	68.907	16.432	1.00	25.29	N
ATOM	679	CA	ILE	A	88	55.376	67.718	15.758	1.00	24.79	C
ATOM	680	C	ILE	A	88	53.881	67.660	15.998	1.00	24.68	C
ATOM	681	O	ILE	A	88	53.428	67.948	17.103	1.00	24.67	O
ATOM	682	CB	ILE	A	88	56.040	66.451	16.357	1.00	25.70	C
ATOM	683	CG1	ILE	A	88	57.552	66.511	16.047	1.00	26.32	C
ATOM	684	CG2	ILE	A	88	55.440	65.164	15.696	1.00	24.21	C
ATOM	685	CD1	ILE	A	88	58.336	66.106	17.182	1.00	28.92	C
ATOM	686	N	TYR	A	89	53.116	67.332	14.960	1.00	23.53	N
ATOM	687	CA	TYR	A	89	51.677	67.209	15.117	1.00	23.73	C
ATOM	688	C	TYR	A	89	51.367	65.713	15.061	1.00	23.06	C
ATOM	689	O	TYR	A	89	51.833	64.988	14.178	1.00	23.77	O
ATOM	690	CB	TYR	A	89	50.920	67.924	14.016	1.00	22.76	C
ATOM	691	CG	TYR	A	89	49.446	67.668	14.152	1.00	23.19	C
ATOM	692	CD1	TYR	A	89	48.740	68.177	15.232	1.00	22.42	C
ATOM	693	CD2	TYR	A	89	48.767	66.838	13.234	1.00	22.63	C
ATOM	694	CE1	TYR	A	89	47.386	67.878	15.413	1.00	23.60	C
ATOM	695	CE2	TYR	A	89	47.410	66.523	13.410	1.00	23.56	C
ATOM	696	CZ	TYR	A	89	46.729	67.041	14.498	1.00	23.06	C
ATOM	697	OH	TYR	A	89	45.412	66.705	14.718	1.00	23.38	O
ATOM	698	N	LEU	A	90	50.599	65.241	16.013	1.00	23.47	N
ATOM	699	CA	LEU	A	90	50.311	63.813	16.053	1.00	23.28	C
ATOM	700	C	LEU	A	90	48.836	63.659	15.818	1.00	23.06	C
ATOM	701	O	LEU	A	90	47.996	63.911	16.689	1.00	23.52	O
ATOM	702	CB	LEU	A	90	50.798	63.256	17.401	1.00	23.88	C
ATOM	703	CG	LEU	A	90	50.414	61.881	17.948	1.00	26.11	C
ATOM	704	CD1	LEU	A	90	49.943	60.967	16.883	1.00	24.78	C
ATOM	705	CD2	LEU	A	90	51.521	61.339	18.819	1.00	24.26	C
ATOM	706	N	SER	A	91	48.548	63.271	14.590	1.00	22.67	N
ATOM	707	CA	SER	A	91	47.213	63.106	14.088	1.00	22.17	C
ATOM	708	C	SER	A	91	46.499	61.844	14.569	1.00	21.90	C
ATOM	709	O	SER	A	91	47.055	60.747	14.486	1.00	21.90	O
ATOM	710	CB	SER	A	91	47.292	63.096	12.552	1.00	22.79	C
ATOM	711	OG	SER	A	91	46.057	62.718	11.952	1.00	22.25	O
ATOM	712	N	GLY	A	92	45.277	62.000	15.052	1.00	20.59	N
ATOM	713	CA	GLY	A	92	44.516	60.849	15.488	1.00	21.13	C
ATOM	714	C	GLY	A	92	43.995	60.095	14.246	1.00	21.89	C
ATOM	715	O	GLY	A	92	43.862	58.872	14.277	1.00	22.90	O
ATOM	716	N	TRP	A	93	43.700	60.826	13.173	1.00	20.98	N
ATOM	717	CA	TRP	A	93	43.210	60.255	11.909	1.00	22.03	C
ATOM	718	C	TRP	A	93	44.295	59.304	11.383	1.00	21.91	C
ATOM	719	O	TRP	A	93	43.987	58.165	11.008	1.00	22.33	O
ATOM	720	CB	TRP	A	93	42.959	61.410	10.911	1.00	21.99	C
ATOM	721	CG	TRP	A	93	42.270	61.029	9.611	1.00	22.59	C
ATOM	722	CD1	TRP	A	93	41.001	61.374	9.220	1.00	22.45	C
ATOM	723	CD2	TRP	A	93	42.829	60.255	8.537	1.00	22.21	C
ATOM	724	NE1	TRP	A	93	40.739	60.857	7.967	1.00	22.73	N
ATOM	725	CE2	TRP	A	93	41.843	60.166	7.530	1.00	22.60	C
ATOM	726	CE3	TRP	A	93	44.075	59.629	8.328	1.00	22.85	C
ATOM	727	CZ2	TRP	A	93	42.055	59.469	6.328	1.00	22.48	C
ATOM	728	CZ3	TRP	A	93	44.288	58.929	7.116	1.00	23.13	C



ATOM	729	CH2	TRP	A	93	43.274	58.858	6.142	1.00	22.76	C
ATOM	730	N	GLN	A	94	45.561	59.743	11.386	1.00	21.43	N
ATOM	731	CA	GLN	A	94	46.647	58.871	10.914	1.00	22.04	C
ATOM	732	C	GLN	A	94	46.783	57.654	11.821	1.00	21.62	C
ATOM	733	O	GLN	A	94	47.114	56.560	11.357	1.00	22.51	O
ATOM	734	CB	GLN	A	94	48.001	59.621	10.871	1.00	21.92	C
ATOM	735	CG	GLN	A	94	47.974	60.825	9.920	1.00	23.35	C
ATOM	736	CD	GLN	A	94	49.366	61.451	9.687	1.00	23.69	C
ATOM	737	OE1	GLN	A	94	50.206	61.575	10.624	1.00	24.59	O
ATOM	738	NE2	GLN	A	94	49.604	61.863	8.460	1.00	21.50	N
ATOM	739	N	VAL	A	95	46.618	57.864	13.124	1.00	21.38	N
ATOM	740	CA	VAL	A	95	46.706	56.754	14.090	1.00	20.59	C
ATOM	741	C	VAL	A	95	45.579	55.746	13.782	1.00	20.72	C
ATOM	742	O	VAL	A	95	45.802	54.543	13.746	1.00	20.99	O
ATOM	743	CB	VAL	A	95	46.632	57.314	15.529	1.00	20.07	C
ATOM	744	CG1	VAL	A	95	46.183	56.218	16.536	1.00	19.79	C
ATOM	745	CG2	VAL	A	95	48.069	57.838	15.932	1.00	19.49	C
ATOM	746	N	ALA	A	96	44.366	56.242	13.543	1.00	20.79	N
ATOM	747	CA	ALA	A	96	43.251	55.380	13.177	1.00	20.73	C
ATOM	748	C	ALA	A	96	43.585	54.590	11.878	1.00	21.73	C
ATOM	749	O	ALA	A	96	43.328	53.363	11.769	1.00	21.44	O
ATOM	750	CB	ALA	A	96	42.007	56.242	12.932	1.00	21.67	C
ATOM	751	N	GLY	A	97	44.179	55.262	10.883	1.00	21.84	N
ATOM	752	CA	GLY	A	97	44.433	54.538	9.638	1.00	21.66	C
ATOM	753	C	GLY	A	97	45.672	53.656	9.569	1.00	22.05	C
ATOM	754	O	GLY	A	97	45.739	52.738	8.733	1.00	22.41	O
ATOM	755	N	ASP	A	98	46.647	53.866	10.449	1.00	21.67	N
ATOM	756	CA	ASP	A	98	47.875	53.089	10.279	1.00	21.90	C
ATOM	757	C	ASP	A	98	48.766	52.978	11.512	1.00	21.56	C
ATOM	758	O	ASP	A	98	49.880	52.510	11.397	1.00	22.07	O
ATOM	759	CB	ASP	A	98	48.678	53.730	9.092	1.00	21.81	C
ATOM	760	CG	ASP	A	98	49.685	52.755	8.409	1.00	23.80	C
ATOM	761	OD1	ASP	A	98	49.472	51.517	8.395	1.00	22.88	O
ATOM	762	OD2	ASP	A	98	50.700	53.256	7.843	1.00	23.26	O
ATOM	763	N	ALA	A	99	48.300	53.382	12.691	1.00	21.20	N
ATOM	764	CA	ALA	A	99	49.162	53.249	13.866	1.00	22.02	C
ATOM	765	C	ALA	A	99	48.415	53.182	15.200	1.00	22.12	C
ATOM	766	O	ALA	A	99	48.741	53.938	16.116	1.00	21.71	O
ATOM	767	CB	ALA	A	99	50.202	54.422	13.905	1.00	21.81	C
ATOM	768	N	ASN	A	100	47.426	52.292	15.329	1.00	21.57	N
ATOM	769	CA	ASN	A	100	46.697	52.235	16.602	1.00	20.83	C
ATOM	770	C	ASN	A	100	46.792	50.845	17.205	1.00	21.50	C
ATOM	771	O	ASN	A	100	47.078	49.859	16.508	1.00	21.72	O
ATOM	772	CB	ASN	A	100	45.242	52.658	16.441	1.00	20.24	C
ATOM	773	CG	ASN	A	100	44.452	51.701	15.571	1.00	21.85	C
ATOM	774	OD1	ASN	A	100	44.283	51.917	14.338	1.00	23.67	O
ATOM	775	ND2	ASN	A	100	43.967	50.647	16.183	1.00	18.88	N
ATOM	776	N	LEU	A	101	46.467	50.754	18.481	1.00	20.12	N
ATOM	777	CA	LEU	A	101	46.674	49.515	19.210	1.00	20.66	C
ATOM	778	C	LEU	A	101	45.761	48.322	18.903	1.00	21.10	C
ATOM	779	O	LEU	A	101	45.986	47.241	19.427	1.00	20.73	O
ATOM	780	CB	LEU	A	101	46.683	49.854	20.694	1.00	21.13	C
ATOM	781	CG	LEU	A	101	47.797	50.855	21.095	1.00	22.01	C
ATOM	782	CD1	LEU	A	101	47.561	51.240	22.580	1.00	21.77	C
ATOM	783	CD2	LEU	A	101	49.225	50.185	20.955	1.00	22.50	C
ATOM	784	N	SER	A	102	44.738	48.510	18.061	1.00	20.64	N
ATOM	785	CA	SER	A	102	43.875	47.380	17.687	1.00	21.21	C
ATOM	786	C	SER	A	102	44.554	46.576	16.567	1.00	20.73	C
ATOM	787	O	SER	A	102	44.223	45.415	16.340	1.00	20.00	O
ATOM	788	CB	SER	A	102	42.528	47.865	17.140	1.00	20.07	C
ATOM	789	OG	SER	A	102	42.669	48.399	15.814	1.00	20.13	O
ATOM	790	N	GLY	A	103	45.458	47.231	15.840	1.00	20.46	N
ATOM	791	CA	GLY	A	103	46.141	46.598	14.717	1.00	20.76	C
ATOM	792	C	GLY	A	103	45.356	46.754	13.405	1.00	20.90	C
ATOM	793	O	GLY	A	103	45.813	46.351	12.318	1.00	20.67	O
ATOM	794	N	HIS	A	104	44.173	47.354	13.496	1.00	20.40	N
ATOM	795	CA	HIS	A	104	43.325	47.550	12.329	1.00	20.78	C
ATOM	796	C	HIS	A	104	43.420	48.916	11.673	1.00	20.91	C
ATOM	797	O	HIS	A	104	43.880	49.882	12.277	1.00	20.43	O
ATOM	798	CB	HIS	A	104	41.854	47.287	12.708	1.00	20.56	C
ATOM	799	CG	HIS	A	104	41.566	45.843	12.971	1.00	21.84	C
ATOM	800	ND1	HIS	A	104	41.641	44.881	11.979	1.00	22.70	N
ATOM	801	CD2	HIS	A	104	41.249	45.188	14.117	1.00	21.61	C
ATOM	802	CE1	HIS	A	104	41.383	43.692	12.509	1.00	23.16	C
ATOM	803	NE2	HIS	A	104	41.141	43.852	13.803	1.00	23.00	N
ATOM	804	N	THR	A	105	42.955	48.981	10.437	1.00	20.69	N
ATOM	805	CA	THR	A	105	42.888	50.230	9.676	1.00	20.85	C
ATOM	806	C	THR	A	105	41.483	50.785	9.882	1.00	21.57	C
ATOM	807	O	THR	A	105	40.505	50.111	9.567	1.00	22.19	O
ATOM	808	CB	THR	A	105	43.075	49.958	8.160	1.00	21.37	C



ATOM	809	OG1	THR	A	105	44.393	49.422	7.936	1.00	20.54	O
ATOM	810	CG2	THR	A	105	42.882	51.236	7.342	1.00	20.77	N
ATOM	811	N	TYR	A	106	41.371	52.019	10.368	1.00	21.38	C
ATOM	812	CA	TYR	A	106	40.072	52.610	10.593	1.00	21.66	C
ATOM	813	C	TYR	A	106	39.910	54.022	10.048	1.00	22.02	O
ATOM	814	O	TYR	A	106	40.887	54.756	9.867	1.00	21.81	C
ATOM	815	CB	TYR	A	106	39.799	52.772	12.091	1.00	21.41	C
ATOM	816	CG	TYR	A	106	39.669	51.505	12.908	1.00	22.21	C
ATOM	817	CD1	TYR	A	106	38.755	50.497	12.538	1.00	21.89	C
ATOM	818	CD2	TYR	A	106	40.388	51.343	14.099	1.00	21.23	C
ATOM	819	CE1	TYR	A	106	38.561	49.365	13.347	1.00	21.83	C
ATOM	820	CE2	TYR	A	106	40.189	50.210	14.921	1.00	21.46	C
ATOM	821	CZ	TYR	A	106	39.275	49.231	14.542	1.00	22.19	C
ATOM	822	OH	TYR	A	106	39.041	48.139	15.382	1.00	21.32	O
ATOM	823	N	PRO	A	107	38.648	54.418	9.807	1.00	22.06	N
ATOM	824	CA	PRO	A	107	38.357	55.766	9.338	1.00	21.64	C
ATOM	825	C	PRO	A	107	38.319	56.561	10.657	1.00	21.98	C
ATOM	826	O	PRO	A	107	38.448	55.987	11.770	1.00	21.37	O
ATOM	827	CB	PRO	A	107	36.980	55.648	8.674	1.00	21.41	C
ATOM	828	CG	PRO	A	107	36.310	54.483	9.458	1.00	21.54	C
ATOM	829	CD	PRO	A	107	37.490	53.511	9.632	1.00	22.27	C
ATOM	830	N	ASP	A	108	38.093	57.859	10.550	1.00	22.48	N
ATOM	831	CA	ASP	A	108	38.120	58.759	11.701	1.00	23.47	C
ATOM	832	C	ASP	A	108	36.793	58.885	12.461	1.00	23.69	C
ATOM	833	O	ASP	A	108	36.040	59.821	12.228	1.00	23.20	O
ATOM	834	CB	ASP	A	108	38.615	60.125	11.182	1.00	24.36	C
ATOM	835	CG	ASP	A	108	38.728	61.209	12.281	1.00	26.56	C
ATOM	836	OD1	ASP	A	108	38.697	60.882	13.508	1.00	26.67	O
ATOM	837	OD2	ASP	A	108	38.872	62.392	11.881	1.00	25.19	O
ATOM	838	N	GLN	A	109	36.528	57.952	13.377	1.00	23.47	N
ATOM	839	CA	GLN	A	109	35.292	57.967	14.177	1.00	24.81	C
ATOM	840	C	GLN	A	109	35.522	57.433	15.581	1.00	23.73	O
ATOM	841	O	GLN	A	109	34.667	56.733	16.129	1.00	23.67	C
ATOM	842	CB	GLN	A	109	34.186	57.122	13.524	1.00	26.51	C
ATOM	843	CG	GLN	A	109	33.329	57.866	12.519	1.00	30.16	C
ATOM	844	CD	GLN	A	109	32.020	57.101	12.131	1.00	29.77	C
ATOM	845	OE1	GLN	A	109	30.983	57.168	12.831	1.00	32.06	O
ATOM	846	NE2	GLN	A	109	32.085	56.383	11.040	1.00	28.63	N
ATOM	847	N	SER	A	110	36.663	57.794	16.174	1.00	22.90	N
ATOM	848	CA	SER	A	110	37.019	57.336	17.518	1.00	23.41	C
ATOM	849	C	SER	A	110	36.776	55.831	17.685	1.00	23.56	C
ATOM	850	O	SER	A	110	36.153	55.392	18.664	1.00	23.80	O
ATOM	851	CB	SER	A	110	36.234	58.119	18.599	1.00	22.88	C
ATOM	852	OG	SER	A	110	36.551	59.488	18.556	1.00	23.55	O
ATOM	853	N	LEU	A	111	37.317	55.058	16.742	1.00	22.86	N
ATOM	854	CA	LEU	A	111	37.184	53.615	16.722	1.00	22.61	C
ATOM	855	C	LEU	A	111	38.320	52.862	17.390	1.00	22.41	C
ATOM	856	O	LEU	A	111	38.115	51.742	17.873	1.00	21.15	O
ATOM	857	CB	LEU	A	111	37.096	53.124	15.286	1.00	23.35	C
ATOM	858	CG	LEU	A	111	35.737	53.308	14.623	1.00	25.76	C
ATOM	859	CD1	LEU	A	111	35.871	53.114	13.097	1.00	25.38	C
ATOM	860	CD2	LEU	A	111	34.732	52.356	15.266	1.00	25.14	C
ATOM	861	N	TYR	A	112	39.515	53.464	17.402	1.00	21.40	N
ATOM	862	CA	TYR	A	112	40.684	52.790	17.961	1.00	21.04	C
ATOM	863	C	TYR	A	112	40.710	52.871	19.483	1.00	20.38	O
ATOM	864	O	TYR	A	112	39.986	53.668	20.076	1.00	21.81	C
ATOM	865	CB	TYR	A	112	41.977	53.353	17.311	1.00	20.00	C
ATOM	866	CG	TYR	A	112	42.133	54.854	17.471	1.00	20.63	C
ATOM	867	CD1	TYR	A	112	42.674	55.394	18.641	1.00	19.65	C
ATOM	868	CD2	TYR	A	112	41.751	55.731	16.446	1.00	20.80	C
ATOM	869	CE1	TYR	A	112	42.845	56.776	18.790	1.00	20.67	C
ATOM	870	CE2	TYR	A	112	41.910	57.125	16.576	1.00	21.00	C
ATOM	871	CZ	TYR	A	112	42.460	57.637	17.762	1.00	20.41	C
ATOM	872	OH	TYR	A	112	42.592	58.995	17.924	1.00	19.82	O
ATOM	873	N	PRO	A	113	41.518	52.025	20.135	1.00	19.52	N
ATOM	874	CA	PRO	A	113	41.659	51.971	21.603	1.00	19.48	C
ATOM	875	C	PRO	A	113	42.163	53.360	22.102	1.00	20.36	C
ATOM	876	O	PRO	A	113	43.091	53.914	21.516	1.00	19.51	O
ATOM	877	CB	PRO	A	113	42.685	50.866	21.813	1.00	18.06	C
ATOM	878	CG	PRO	A	113	42.383	49.917	20.643	1.00	18.28	C
ATOM	879	CD	PRO	A	113	42.274	50.934	19.491	1.00	18.66	C
ATOM	880	N	ALA	A	114	41.535	53.873	23.163	1.00	19.55	N
ATOM	881	CA	ALA	A	114	41.803	55.214	23.701	1.00	20.11	C
ATOM	882	C	ALA	A	114	43.256	55.514	24.100	1.00	20.42	C
ATOM	883	O	ALA	A	114	43.645	56.701	24.178	1.00	21.34	O
ATOM	884	CB	ALA	A	114	40.847	55.470	24.885	1.00	18.56	C
ATOM	885	N	ASN	A	115	44.063	54.480	24.358	1.00	20.04	N
ATOM	886	CA	ASN	A	115	45.462	54.743	24.710	1.00	19.94	C
ATOM	887	C	ASN	A	115	46.390	54.726	23.483	1.00	20.30	C
ATOM	888	O	ASN	A	115	47.619	54.814	23.613	1.00	19.66	C



ATOM	889	CB	ASN	A	115	45.977	53.790	25.802	1.00	19.97	C
ATOM	890	CG	ASN	A	115	45.840	52.312	25.443	1.00	21.07	C
ATOM	891	OD1	ASN	A	115	44.982	51.914	24.656	1.00	19.63	O
ATOM	892	ND2	ASN	A	115	46.691	51.490	26.050	1.00	20.24	N
ATOM	893	N	SER	A	116	45.807	54.672	22.285	1.00	19.43	N
ATOM	894	CA	SER	A	116	46.646	54.663	21.082	1.00	19.91	C
ATOM	895	C	SER	A	116	47.497	55.938	20.852	1.00	20.59	C
ATOM	896	O	SER	A	116	48.691	55.838	20.545	1.00	20.38	O
ATOM	897	CB	SER	A	116	45.789	54.406	19.821	1.00	19.21	C
ATOM	898	OG	SER	A	116	45.246	53.092	19.832	1.00	19.12	O
ATOM	899	N	VAL	A	117	46.886	57.129	20.925	1.00	20.58	N
ATOM	900	CA	VAL	A	117	47.684	58.331	20.695	1.00	20.20	C
ATOM	901	C	VAL	A	117	48.798	58.423	21.754	1.00	20.34	C
ATOM	902	O	VAL	A	117	49.953	58.694	21.422	1.00	20.67	O
ATOM	903	CB	VAL	A	117	46.788	59.602	20.580	1.00	20.45	C
ATOM	904	CG1	VAL	A	117	47.656	60.859	20.511	1.00	19.54	C
ATOM	905	CG2	VAL	A	117	45.982	59.530	19.223	1.00	20.05	C
ATOM	906	N	PRO	A	118	48.475	58.193	23.027	1.00	19.73	N
ATOM	907	CA	PRO	A	118	49.559	58.255	24.014	1.00	20.41	C
ATOM	908	C	PRO	A	118	50.751	57.362	23.669	1.00	21.09	C
ATOM	909	O	PRO	A	118	51.910	57.761	23.879	1.00	20.60	O
ATOM	910	CB	PRO	A	118	48.887	57.793	25.303	1.00	18.64	C
ATOM	911	CG	PRO	A	118	47.504	58.473	25.136	1.00	19.94	C
ATOM	912	CD	PRO	A	118	47.160	58.117	23.694	1.00	19.13	C
ATOM	913	N	GLN	A	119	50.489	56.135	23.198	1.00	20.96	N
ATOM	914	CA	GLN	A	119	51.602	55.269	22.841	1.00	21.64	C
ATOM	915	C	GLN	A	119	52.441	55.868	21.701	1.00	20.95	C
ATOM	916	O	GLN	A	119	53.643	55.686	21.687	1.00	19.80	O
ATOM	917	CB	GLN	A	119	51.094	53.875	22.436	1.00	23.85	C
ATOM	918	CG	GLN	A	119	50.761	53.079	23.703	1.00	28.54	C
ATOM	919	CD	GLN	A	119	52.009	52.894	24.540	1.00	30.76	C
ATOM	920	OE1	GLN	A	119	52.181	53.522	25.600	1.00	32.59	O
ATOM	921	NE2	GLN	A	119	52.923	52.054	24.040	1.00	31.08	N
ATOM	922	N	VAL	A	120	51.812	56.564	20.750	1.00	20.13	N
ATOM	923	CA	VAL	A	120	52.577	57.146	19.644	1.00	20.73	C
ATOM	924	C	VAL	A	120	53.356	58.403	20.137	1.00	20.89	C
ATOM	925	O	VAL	A	120	54.474	58.684	19.664	1.00	21.38	O
ATOM	926	CB	VAL	A	120	51.650	57.417	18.418	1.00	20.66	C
ATOM	927	CG1	VAL	A	120	52.458	58.037	17.277	1.00	21.79	C
ATOM	928	CG2	VAL	A	120	51.040	56.049	17.910	1.00	20.75	C
ATOM	929	N	VAL	A	121	52.785	59.134	21.093	1.00	20.47	N
ATOM	930	CA	VAL	A	121	53.486	60.280	21.693	1.00	20.43	C
ATOM	931	C	VAL	A	121	54.759	59.724	22.352	1.00	20.78	C
ATOM	932	O	VAL	A	121	55.869	60.246	22.122	1.00	21.21	O
ATOM	933	CB	VAL	A	121	52.656	60.961	22.788	1.00	20.21	C
ATOM	934	CG1	VAL	A	121	53.548	61.991	23.556	1.00	19.45	C
ATOM	935	CG2	VAL	A	121	51.436	61.679	22.151	1.00	19.20	C
ATOM	936	N	ARG	A	122	54.624	58.637	23.121	1.00	19.90	N
ATOM	937	CA	ARG	A	122	55.798	58.045	23.790	1.00	20.57	C
ATOM	938	C	ARG	A	122	56.835	57.593	22.757	1.00	20.70	C
ATOM	939	O	ARG	A	122	58.055	57.777	22.936	1.00	20.18	O
ATOM	940	CB	ARG	A	122	55.385	56.847	24.668	1.00	20.55	C
ATOM	941	CG	ARG	A	122	56.542	56.195	25.445	1.00	21.96	C
ATOM	942	CD	ARG	A	122	57.207	57.132	26.520	1.00	20.83	C
ATOM	943	NE	ARG	A	122	58.393	57.840	26.000	1.00	22.46	N
ATOM	944	CZ	ARG	A	122	59.202	58.622	26.744	1.00	22.25	C
ATOM	945	NH1	ARG	A	122	58.948	58.826	28.033	1.00	20.36	N
ATOM	946	NH2	ARG	A	122	60.312	59.134	26.217	1.00	22.47	N
ATOM	947	N	ARG	A	123	56.349	56.978	21.679	1.00	20.16	N
ATOM	948	CA	ARG	A	123	57.221	56.515	20.617	1.00	19.91	C
ATOM	949	C	ARG	A	123	57.993	57.689	19.945	1.00	20.62	C
ATOM	950	O	ARG	A	123	59.190	57.595	19.725	1.00	20.05	O
ATOM	951	CB	ARG	A	123	56.401	55.780	19.557	1.00	21.13	C
ATOM	952	CG	ARG	A	123	57.118	55.529	18.214	1.00	19.96	C
ATOM	953	CD	ARG	A	123	58.373	54.673	18.378	1.00	20.29	C
ATOM	954	NE	ARG	A	123	59.182	54.711	17.155	1.00	19.56	N
ATOM	955	CZ	ARG	A	123	60.519	54.737	17.137	1.00	20.31	C
ATOM	956	NH1	ARG	A	123	61.192	54.730	18.284	1.00	19.75	N
ATOM	957	NH2	ARG	A	123	61.196	54.823	15.968	1.00	19.15	N
ATOM	958	N	ILE	A	124	57.291	58.763	19.603	1.00	20.82	N
ATOM	959	CA	ILE	A	124	57.941	59.907	18.956	1.00	20.79	C
ATOM	960	C	ILE	A	124	58.990	60.485	19.913	1.00	21.75	C
ATOM	961	O	ILE	A	124	60.098	60.791	19.486	1.00	21.75	O
ATOM	962	CB	ILE	A	124	56.882	60.949	18.552	1.00	21.75	C
ATOM	963	CG1	ILE	A	124	56.110	60.399	17.336	1.00	22.31	C
ATOM	964	CG2	ILE	A	124	57.578	62.343	18.200	1.00	20.89	C
ATOM	965	CD1	ILE	A	124	54.883	61.213	16.958	1.00	24.18	C
ATOM	966	N	ASN	A	125	58.669	60.585	21.209	1.00	21.25	N
ATOM	967	CA	ASN	A	125	59.654	61.107	22.158	1.00	21.84	C
ATOM	968	C	ASN	A	125	60.889	60.193	22.218	1.00	22.37	C



ATOM	969	O	ASN	A	125	62.034	60.683	22.191	1.00	21.81	O
ATOM	970	CB	ASN	A	125	59.050	61.318	23.567	1.00	20.69	C
ATOM	971	CG	ASN	A	125	58.422	62.726	23.728	1.00	22.13	C
ATOM	972	OD1	ASN	A	125	58.924	63.720	23.157	1.00	21.45	O
ATOM	973	ND2	ASN	A	125	57.345	62.816	24.494	1.00	21.48	N
ATOM	974	N	ASN	A	126	60.669	58.879	22.242	1.00	21.32	N
ATOM	975	CA	ASN	A	126	61.787	57.951	22.267	1.00	22.01	C
ATOM	976	C	ASN	A	126	62.663	58.135	21.029	1.00	22.25	C
ATOM	977	O	ASN	A	126	63.891	58.051	21.115	1.00	22.74	O
ATOM	978	CB	ASN	A	126	61.324	56.478	22.267	1.00	21.25	C
ATOM	979	CG	ASN	A	126	60.671	56.080	23.584	1.00	22.90	C
ATOM	980	OD1	ASN	A	126	60.888	56.742	24.617	1.00	22.23	O
ATOM	981	ND2	ASN	A	126	59.874	55.007	23.562	1.00	20.86	N
ATOM	982	N	ALA	A	127	62.027	58.319	19.880	1.00	21.68	N
ATOM	983	CA	ALA	A	127	62.770	58.451	18.621	1.00	22.00	C
ATOM	984	C	ALA	A	127	63.601	59.747	18.608	1.00	21.88	C
ATOM	985	O	ALA	A	127	64.745	59.755	18.167	1.00	21.33	O
ATOM	986	CB	ALA	A	127	61.797	58.441	17.419	1.00	20.87	C
ATOM	987	N	LEU	A	128	62.994	60.833	19.068	1.00	22.70	N
ATOM	988	CA	LEU	A	128	63.687	62.142	19.131	1.00	23.54	C
ATOM	989	C	LEU	A	128	64.818	62.034	20.147	1.00	23.88	C
ATOM	990	O	LEU	A	128	65.928	62.569	19.934	1.00	25.26	O
ATOM	991	CB	LEU	A	128	62.696	63.234	19.543	1.00	22.17	C
ATOM	992	CG	LEU	A	128	61.654	63.486	18.443	1.00	22.59	C
ATOM	993	CD1	LEU	A	128	60.629	64.466	18.966	1.00	22.37	C
ATOM	994	CD2	LEU	A	128	62.314	63.976	17.129	1.00	21.88	C
ATOM	995	N	GLN	A	129	64.574	61.315	21.239	1.00	23.42	N
ATOM	996	CA	GLN	A	129	65.622	61.143	22.234	1.00	24.00	C
ATOM	997	C	GLN	A	129	66.790	60.374	21.651	1.00	24.23	C
ATOM	998	O	GLN	A	129	67.963	60.676	21.968	1.00	24.41	O
ATOM	999	CB	GLN	A	129	65.097	60.423	23.486	1.00	23.95	C
ATOM	1000	CG	GLN	A	129	64.146	61.249	24.321	1.00	24.70	C
ATOM	1001	CD	GLN	A	129	63.618	60.417	25.493	1.00	27.07	C
ATOM	1002	OE1	GLN	A	129	62.854	59.486	25.282	1.00	28.19	O
ATOM	1003	NE2	GLN	A	129	64.063	60.720	26.714	1.00	26.69	N
ATOM	1004	N	ARG	A	130	66.506	59.384	20.806	1.00	23.85	N
ATOM	1005	CA	ARG	A	130	67.610	58.655	20.203	1.00	24.66	C
ATOM	1006	C	ARG	A	130	68.391	59.565	19.241	1.00	25.51	C
ATOM	1007	O	ARG	A	130	69.625	59.494	19.190	1.00	25.44	O
ATOM	1008	CB	ARG	A	130	67.127	57.419	19.429	1.00	24.60	C
ATOM	1009	CG	ARG	A	130	68.279	56.534	18.942	1.00	24.43	C
ATOM	1010	CD	ARG	A	130	68.936	55.776	20.114	1.00	25.41	C
ATOM	1011	NE	ARG	A	130	68.131	54.615	20.522	1.00	24.46	N
ATOM	1012	CZ	ARG	A	130	67.962	54.177	21.768	1.00	24.40	C
ATOM	1013	NH1	ARG	A	130	68.524	54.802	22.806	1.00	23.02	N
ATOM	1014	NH2	ARG	A	130	67.242	53.057	21.980	1.00	24.26	N
ATOM	1015	N	ALA	A	131	67.688	60.400	18.476	1.00	25.47	N
ATOM	1016	CA	ALA	A	131	68.388	61.300	17.532	1.00	26.66	C
ATOM	1017	C	ALA	A	131	69.323	62.235	18.335	1.00	27.07	C
ATOM	1018	O	ALA	A	131	70.475	62.486	17.941	1.00	27.05	O
ATOM	1019	CB	ALA	A	131	67.375	62.120	16.705	1.00	25.60	C
ATOM	1020	N	ASP	A	132	68.805	62.723	19.455	1.00	27.77	N
ATOM	1021	CA	ASP	A	132	69.523	63.580	20.400	1.00	27.80	C
ATOM	1022	C	ASP	A	132	70.754	62.822	20.941	1.00	28.09	C
ATOM	1023	O	ASP	A	132	71.876	63.366	20.964	1.00	28.29	O
ATOM	1024	CB	ASP	A	132	68.557	63.978	21.545	1.00	28.94	C
ATOM	1025	CG	ASP	A	132	69.225	64.852	22.631	1.00	30.18	C
ATOM	1026	OD1	ASP	A	132	69.668	65.977	22.316	1.00	30.05	O
ATOM	1027	OD2	ASP	A	132	69.302	64.422	23.794	1.00	30.12	O
ATOM	1028	N	GLN	A	133	70.587	61.569	21.370	1.00	27.41	N
ATOM	1029	CA	GLN	A	133	71.725	60.786	21.876	1.00	27.40	C
ATOM	1030	C	GLN	A	133	72.833	60.612	20.833	1.00	27.92	C
ATOM	1031	O	GLN	A	133	74.035	60.762	21.140	1.00	27.98	O
ATOM	1032	CB	GLN	A	133	71.268	59.391	22.345	1.00	27.31	C
ATOM	1033	CG	GLN	A	133	70.419	59.447	23.608	1.00	26.65	C
ATOM	1034	CD	GLN	A	133	69.409	58.274	23.720	1.00	26.77	C
ATOM	1035	OE1	GLN	A	133	68.621	58.205	24.689	1.00	28.45	O
ATOM	1036	NE2	GLN	A	133	69.443	57.367	22.774	1.00	23.55	N
ATOM	1037	N	ILE	A	134	72.433	60.295	19.607	1.00	27.08	N
ATOM	1038	CA	ILE	A	134	73.375	60.091	18.505	1.00	28.12	C
ATOM	1039	C	ILE	A	134	74.128	61.399	18.194	1.00	29.32	C
ATOM	1040	O	ILE	A	134	75.345	61.391	17.976	1.00	29.87	O
ATOM	1041	CB	ILE	A	134	72.632	59.621	17.220	1.00	27.57	C
ATOM	1042	CG1	ILE	A	134	72.011	58.231	17.473	1.00	28.08	C
ATOM	1043	CG2	ILE	A	134	73.616	59.544	16.024	1.00	27.26	C
ATOM	1044	CD1	ILE	A	134	70.901	57.863	16.495	1.00	26.43	C
ATOM	1045	N	ALA	A	135	73.390	62.503	18.156	1.00	29.88	N
ATOM	1046	CA	ALA	A	135	73.958	63.819	17.881	1.00	31.15	C
ATOM	1047	C	ALA	A	135	75.027	64.170	18.911	1.00	32.42	C
ATOM	1048	O	ALA	A	135	76.092	64.700	18.574	1.00	32.68	O



ATOM	1049	CB	ALA	A	135	72.860	64.881	17.917	1.00	30.63	C
ATOM	1050	N	LYS	A	136	74.728	63.882	20.169	1.00	33.06	N
ATOM	1051	CA	LYS	A	136	75.633	64.205	21.241	1.00	34.24	C
ATOM	1052	C	LYS	A	136	76.943	63.427	21.123	1.00	35.06	C
ATOM	1053	O	LYS	A	136	78.033	63.992	21.294	1.00	35.14	O
ATOM	1054	CB	LYS	A	136	74.957	63.951	22.601	1.00	34.66	C
ATOM	1055	CG	LYS	A	136	75.789	64.432	23.782	1.00	36.22	C
ATOM	1056	CD	LYS	A	136	75.211	64.023	25.125	1.00	37.31	C
ATOM	1057	CE	LYS	A	136	76.081	64.560	26.273	1.00	38.00	C
ATOM	1058	NZ	LYS	A	136	75.344	64.573	27.582	1.00	37.58	N
ATOM	1059	N	ILE	A	137	76.880	62.134	20.819	1.00	35.09	N
ATOM	1060	CA	ILE	A	137	78.133	61.415	20.724	1.00	35.28	C
ATOM	1061	C	ILE	A	137	78.876	61.704	19.410	1.00	36.49	C
ATOM	1062	O	ILE	A	137	80.071	61.396	19.287	1.00	36.68	O
ATOM	1063	CB	ILE	A	137	77.933	59.884	20.886	1.00	34.56	C
ATOM	1064	CG1	ILE	A	137	77.226	59.299	19.676	1.00	32.73	C
ATOM	1065	CG2	ILE	A	137	77.123	59.598	22.163	1.00	33.65	C
ATOM	1066	CD1	ILE	A	137	77.291	57.774	19.674	1.00	32.65	C
ATOM	1067	N	GLU	A	138	78.177	62.283	18.439	1.00	37.12	N
ATOM	1068	CA	GLU	A	138	78.769	62.599	17.140	1.00	38.63	C
ATOM	1069	C	GLU	A	138	79.250	64.049	17.096	1.00	38.67	C
ATOM	1070	O	GLU	A	138	79.856	64.473	16.103	1.00	38.77	O
ATOM	1071	CB	GLU	A	138	77.736	62.445	16.024	1.00	40.31	C
ATOM	1072	CG	GLU	A	138	77.173	61.058	15.848	1.00	43.97	C
ATOM	1073	CD	GLU	A	138	78.014	60.222	14.925	1.00	46.41	C
ATOM	1074	OE1	GLU	A	138	79.195	59.941	15.250	1.00	47.78	O
ATOM	1075	OE2	GLU	A	138	77.493	59.844	13.857	1.00	48.57	O
ATOM	1076	N	GLY	A	139	78.938	64.806	18.139	1.00	38.22	N
ATOM	1077	CA	GLY	A	139	79.307	66.203	18.177	1.00	38.46	C
ATOM	1078	C	GLY	A	139	78.489	67.026	17.193	1.00	39.03	C
ATOM	1079	O	GLY	A	139	78.917	68.110	16.779	1.00	39.61	O
ATOM	1080	N	ASP	A	140	77.320	66.521	16.798	1.00	38.26	N
ATOM	1081	CA	ASP	A	140	76.458	67.218	15.848	1.00	37.36	C
ATOM	1082	C	ASP	A	140	75.621	68.246	16.570	1.00	37.36	C
ATOM	1083	O	ASP	A	140	74.781	67.892	17.405	1.00	37.02	O
ATOM	1084	CB	ASP	A	140	75.560	66.206	15.145	1.00	37.75	C
ATOM	1085	CG	ASP	A	140	74.563	66.852	14.214	1.00	38.27	C
ATOM	1086	OD1	ASP	A	140	74.667	68.083	13.977	1.00	36.93	O
ATOM	1087	OD2	ASP	A	140	73.672	66.110	13.721	1.00	38.43	O
ATOM	1088	N	THR	A	141	75.835	69.522	16.266	1.00	36.56	N
ATOM	1089	CA	THR	A	141	75.078	70.549	16.946	1.00	37.00	C
ATOM	1090	C	THR	A	141	74.224	71.290	15.922	1.00	37.18	C
ATOM	1091	O	THR	A	141	73.751	72.398	16.179	1.00	37.50	O
ATOM	1092	CB	THR	A	141	76.014	71.574	17.671	1.00	37.84	C
ATOM	1093	OG1	THR	A	141	76.844	72.206	16.699	1.00	37.62	O
ATOM	1094	CG2	THR	A	141	76.919	70.898	18.695	1.00	37.65	C
ATOM	1095	N	SER	A	142	74.012	70.671	14.765	1.00	36.97	N
ATOM	1096	CA	SER	A	142	73.218	71.297	13.722	1.00	36.73	C
ATOM	1097	C	SER	A	142	71.767	71.518	14.134	1.00	36.48	C
ATOM	1098	O	SER	A	142	71.141	72.484	13.694	1.00	36.08	O
ATOM	1099	CB	SER	A	142	73.279	70.484	12.432	1.00	37.50	C
ATOM	1100	OG	SER	A	142	72.877	69.141	12.626	1.00	38.62	O
ATOM	1101	N	VAL	A	143	71.225	70.628	14.965	1.00	35.18	N
ATOM	1102	CA	VAL	A	143	69.850	70.809	15.426	1.00	34.22	C
ATOM	1103	C	VAL	A	143	69.950	71.253	16.858	1.00	33.93	C
ATOM	1104	O	VAL	A	143	70.549	70.593	17.695	1.00	33.85	O
ATOM	1105	CB	VAL	A	143	68.997	69.497	15.331	1.00	33.43	C
ATOM	1106	CG1	VAL	A	143	67.624	69.688	16.037	1.00	31.97	C
ATOM	1107	CG2	VAL	A	143	68.760	69.168	13.883	1.00	32.33	C
ATOM	1108	N	GLU	A	144	69.341	72.378	17.150	1.00	34.73	N
ATOM	1109	CA	GLU	A	144	69.419	72.909	18.494	1.00	35.70	C
ATOM	1110	C	GLU	A	144	68.509	72.210	19.499	1.00	34.37	C
ATOM	1111	O	GLU	A	144	68.859	72.111	20.661	1.00	34.36	O
ATOM	1112	CB	GLU	A	144	69.094	74.394	18.470	1.00	38.94	C
ATOM	1113	CG	GLU	A	144	69.538	75.078	19.713	1.00	43.83	C
ATOM	1114	CD	GLU	A	144	68.431	75.926	20.307	1.00	47.45	C
ATOM	1115	OE1	GLU	A	144	67.296	75.394	20.525	1.00	48.79	O
ATOM	1116	OE2	GLU	A	144	68.705	77.129	20.560	1.00	49.44	O
ATOM	1117	N	ASN	A	145	67.340	71.734	19.064	1.00	32.23	N
ATOM	1118	CA	ASN	A	145	66.424	71.063	19.999	1.00	29.95	C
ATOM	1119	C	ASN	A	145	65.786	69.850	19.341	1.00	28.54	C
ATOM	1120	O	ASN	A	145	64.839	69.983	18.572	1.00	28.20	O
ATOM	1121	CB	ASN	A	145	65.298	72.008	20.441	1.00	29.60	C
ATOM	1122	CG	ASN	A	145	64.320	71.340	21.410	1.00	29.35	C
ATOM	1123	OD1	ASN	A	145	63.126	71.650	21.416	1.00	29.83	O
ATOM	1124	ND2	ASN	A	145	64.821	70.423	22.221	1.00	28.97	N
ATOM	1125	N	TRP	A	146	66.310	68.673	19.638	1.00	27.07	N
ATOM	1126	CA	TRP	A	146	65.742	67.462	19.072	1.00	27.05	C
ATOM	1127	C	TRP	A	146	64.366	67.189	19.689	1.00	26.58	C
ATOM	1128	O	TRP	A	146	63.476	66.641	19.028	1.00	28.27	O



ATOM	1129	CB	TRP	A	146	66.689	66.272	19.286	1.00	25.18	C
ATOM	1130	CG	TRP	A	146	67.773	66.254	18.252	1.00	25.95	C
ATOM	1131	CD1	TRP	A	146	69.096	66.633	18.411	1.00	26.00	C
ATOM	1132	CD2	TRP	A	146	67.628	65.878	16.876	1.00	26.82	C
ATOM	1133	NE1	TRP	A	146	69.768	66.504	17.205	1.00	27.23	N
ATOM	1134	CE2	TRP	A	146	68.892	66.045	16.253	1.00	27.05	C
ATOM	1135	CE3	TRP	A	146	66.547	65.422	16.102	1.00	26.93	C
ATOM	1136	CZ2	TRP	A	146	69.101	65.765	14.899	1.00	27.57	C
ATOM	1137	CZ3	TRP	A	146	66.759	65.149	14.752	1.00	26.34	C
ATOM	1138	CH2	TRP	A	146	68.029	65.319	14.171	1.00	27.82	C
ATOM	1139	N	LEU	A	147	64.184	67.593	20.942	1.00	26.60	N
ATOM	1140	CA	LEU	A	147	62.906	67.349	21.611	1.00	26.54	C
ATOM	1141	C	LEU	A	147	61.870	68.415	21.293	1.00	25.67	C
ATOM	1142	O	LEU	A	147	61.486	69.194	22.144	1.00	25.66	O
ATOM	1143	CB	LEU	A	147	63.113	67.224	23.114	1.00	26.62	C
ATOM	1144	CG	LEU	A	147	63.764	65.882	23.464	1.00	28.88	C
ATOM	1145	CD1	LEU	A	147	64.238	65.917	24.911	1.00	29.94	C
ATOM	1146	CD2	LEU	A	147	62.719	64.735	23.259	1.00	29.20	C
ATOM	1147	N	ALA	A	148	61.436	68.425	20.048	1.00	25.11	N
ATOM	1148	CA	ALA	A	148	60.439	69.355	19.601	1.00	25.45	C
ATOM	1149	C	ALA	A	148	59.149	68.988	20.328	1.00	25.92	C
ATOM	1150	O	ALA	A	148	58.875	67.800	20.601	1.00	24.70	O
ATOM	1151	CB	ALA	A	148	60.250	69.246	18.081	1.00	25.99	C
ATOM	1152	N	PRO	A	149	58.376	70.014	20.714	1.00	25.25	N
ATOM	1153	CA	PRO	A	149	57.114	69.757	21.417	1.00	24.66	C
ATOM	1154	C	PRO	A	149	56.116	69.025	20.532	1.00	24.08	C
ATOM	1155	O	PRO	A	149	56.036	69.269	19.302	1.00	23.70	O
ATOM	1156	CB	PRO	A	149	56.628	71.147	21.816	1.00	24.93	C
ATOM	1157	CG	PRO	A	149	57.292	72.094	20.767	1.00	26.03	C
ATOM	1158	CD	PRO	A	149	58.676	71.460	20.614	1.00	25.89	C
ATOM	1159	N	ILE	A	150	55.348	68.131	21.157	1.00	23.12	N
ATOM	1160	CA	ILE	A	150	54.349	67.361	20.422	1.00	22.33	C
ATOM	1161	C	ILE	A	150	52.950	67.840	20.720	1.00	22.81	C
ATOM	1162	O	ILE	A	150	52.557	67.969	21.886	1.00	23.16	O
ATOM	1163	CB	ILE	A	150	54.443	65.852	20.792	1.00	23.18	C
ATOM	1164	CG1	ILE	A	150	55.835	65.308	20.402	1.00	22.09	C
ATOM	1165	CG2	ILE	A	150	53.358	65.050	20.058	1.00	21.11	C
ATOM	1166	CD1	ILE	A	150	56.200	64.005	21.135	1.00	22.77	C
ATOM	1167	N	VAL	A	151	52.189	68.111	19.670	1.00	22.68	N
ATOM	1168	CA	VAL	A	151	50.790	68.506	19.863	1.00	23.04	C
ATOM	1169	C	VAL	A	151	49.985	67.296	19.354	1.00	23.21	C
ATOM	1170	O	VAL	A	151	50.117	66.886	18.191	1.00	22.75	O
ATOM	1171	CB	VAL	A	151	50.431	69.769	19.044	1.00	23.38	C
ATOM	1172	CG1	VAL	A	151	48.934	70.004	19.119	1.00	21.42	C
ATOM	1173	CG2	VAL	A	151	51.184	70.990	19.635	1.00	22.20	C
ATOM	1174	N	ALA	A	152	49.172	66.727	20.248	1.00	23.26	N
ATOM	1175	CA	ALA	A	152	48.428	65.526	19.940	1.00	22.90	C
ATOM	1176	C	ALA	A	152	46.920	65.699	19.936	1.00	23.11	C
ATOM	1177	O	ALA	A	152	46.343	66.529	20.654	1.00	23.57	O
ATOM	1178	CB	ALA	A	152	48.828	64.413	20.922	1.00	22.55	C
ATOM	1179	N	ASP	A	153	46.317	64.852	19.130	1.00	22.28	N
ATOM	1180	CA	ASP	A	153	44.891	64.780	18.871	1.00	22.51	C
ATOM	1181	C	ASP	A	153	44.196	63.995	19.989	1.00	22.17	C
ATOM	1182	O	ASP	A	153	44.438	62.788	20.136	1.00	22.16	O
ATOM	1183	CB	ASP	A	153	44.743	64.039	17.519	1.00	21.47	C
ATOM	1184	CG	ASP	A	153	43.339	64.052	16.957	1.00	22.35	C
ATOM	1185	OD1	ASP	A	153	42.351	64.254	17.717	1.00	21.98	O
ATOM	1186	OD2	ASP	A	153	43.244	63.843	15.721	1.00	22.36	O
ATOM	1187	N	GLY	A	154	43.341	64.659	20.771	1.00	21.49	N
ATOM	1188	CA	GLY	A	154	42.602	63.955	21.818	1.00	20.57	C
ATOM	1189	C	GLY	A	154	41.195	63.575	21.367	1.00	20.95	C
ATOM	1190	O	GLY	A	154	40.407	63.086	22.179	1.00	20.38	O
ATOM	1191	N	GLU	A	155	40.869	63.784	20.087	1.00	20.79	N
ATOM	1192	CA	GLU	A	155	39.511	63.496	19.575	1.00	22.18	C
ATOM	1193	C	GLU	A	155	38.536	64.258	20.501	1.00	23.38	C
ATOM	1194	O	GLU	A	155	38.746	65.456	20.745	1.00	23.46	O
ATOM	1195	CB	GLU	A	155	39.222	61.972	19.604	1.00	21.89	C
ATOM	1196	CG	GLU	A	155	40.256	61.159	18.833	1.00	22.54	C
ATOM	1197	CD	GLU	A	155	40.098	61.167	17.292	1.00	24.57	C
ATOM	1198	OE1	GLU	A	155	39.214	61.877	16.712	1.00	24.26	O
ATOM	1199	OE2	GLU	A	155	40.886	60.425	16.645	1.00	24.54	O
ATOM	1200	N	ALA	A	156	37.481	63.595	20.981	1.00	23.39	N
ATOM	1201	CA	ALA	A	156	36.573	64.212	21.966	1.00	23.99	C
ATOM	1202	C	ALA	A	156	36.753	63.435	23.266	1.00	24.23	C
ATOM	1203	O	ALA	A	156	35.842	63.338	24.094	1.00	24.79	O
ATOM	1204	CB	ALA	A	156	35.119	64.152	21.515	1.00	23.35	C
ATOM	1205	N	GLY	A	157	37.936	62.864	23.455	1.00	23.95	N
ATOM	1206	CA	GLY	A	157	38.196	62.145	24.699	1.00	24.05	C
ATOM	1207	C	GLY	A	157	37.659	60.720	24.902	1.00	24.61	C
ATOM	1208	O	GLY	A	157	37.825	60.169	25.993	1.00	23.49	O



ATOM	1209	N	PHE	A	158	37.008	60.139	23.891	1.00	23.78	N
ATOM	1210	CA	PHE	A	158	36.527	58.743	23.954	1.00	23.67	C
ATOM	1211	C	PHE	A	158	35.518	58.485	25.083	1.00	23.63	C
ATOM	1212	O	PHE	A	158	35.603	57.475	25.827	1.00	23.31	O
ATOM	1213	CB	PHE	A	158	37.734	57.772	24.101	1.00	23.92	C
ATOM	1214	CG	PHE	A	158	38.649	57.740	22.894	1.00	23.96	C
ATOM	1215	CD1	PHE	A	158	38.361	56.919	21.804	1.00	23.58	C
ATOM	1216	CD2	PHE	A	158	39.764	58.566	22.821	1.00	24.47	C
ATOM	1217	CE1	PHE	A	158	39.162	56.936	20.658	1.00	24.86	C
ATOM	1218	CE2	PHE	A	158	40.587	58.598	21.669	1.00	25.16	C
ATOM	1219	CZ	PHE	A	158	40.286	57.784	20.582	1.00	24.74	C
ATOM	1220	N	GLY	A	159	34.565	59.392	25.229	1.00	23.06	N
ATOM	1221	CA	GLY	A	159	33.546	59.152	26.234	1.00	23.42	C
ATOM	1222	C	GLY	A	159	33.191	60.405	26.986	1.00	23.58	C
ATOM	1223	O	GLY	A	159	33.010	61.449	26.357	1.00	22.69	O
ATOM	1224	N	GLY	A	160	33.121	60.304	28.315	1.00	23.09	N
ATOM	1225	CA	GLY	A	160	32.759	61.454	29.127	1.00	23.29	C
ATOM	1226	C	GLY	A	160	33.941	62.202	29.732	1.00	23.15	C
ATOM	1227	O	GLY	A	160	35.089	62.074	29.295	1.00	22.42	O
ATOM	1228	N	ALA	A	161	33.672	62.963	30.776	1.00	22.95	N
ATOM	1229	CA	ALA	A	161	34.742	63.755	31.372	1.00	23.43	C
ATOM	1230	C	ALA	A	161	35.854	62.899	31.960	1.00	23.10	C
ATOM	1231	O	ALA	A	161	37.018	63.330	31.964	1.00	23.65	O
ATOM	1232	CB	ALA	A	161	34.180	64.729	32.452	1.00	23.67	C
ATOM	1233	N	LEU	A	162	35.522	61.711	32.467	1.00	21.78	N
ATOM	1234	CA	LEU	A	162	36.564	60.878	33.040	1.00	22.04	C
ATOM	1235	C	LEU	A	162	37.415	60.247	31.945	1.00	21.88	C
ATOM	1236	O	LEU	A	162	38.624	59.968	32.167	1.00	21.09	O
ATOM	1237	CB	LEU	A	162	35.967	59.799	33.956	1.00	22.61	C
ATOM	1238	CG	LEU	A	162	35.075	60.406	35.071	1.00	23.82	C
ATOM	1239	CD1	LEU	A	162	34.483	59.264	35.931	1.00	24.36	C
ATOM	1240	CD2	LEU	A	162	35.889	61.356	35.948	1.00	24.84	C
ATOM	1241	N	ASN	A	163	36.807	59.980	30.784	1.00	21.04	N
ATOM	1242	CA	ASN	A	163	37.596	59.433	29.668	1.00	21.76	C
ATOM	1243	C	ASN	A	163	38.542	60.546	29.170	1.00	21.45	C
ATOM	1244	O	ASN	A	163	39.712	60.275	28.863	1.00	20.26	O
ATOM	1245	CB	ASN	A	163	36.691	58.932	28.523	1.00	21.28	C
ATOM	1246	CG	ASN	A	163	35.831	57.739	28.949	1.00	22.78	C
ATOM	1247	OD1	ASN	A	163	36.298	56.551	28.967	1.00	23.37	O
ATOM	1248	ND2	ASN	A	163	34.602	58.027	29.324	1.00	20.34	N
ATOM	1249	N	VAL	A	164	38.047	61.789	29.074	1.00	21.94	N
ATOM	1250	CA	VAL	A	164	38.956	62.854	28.630	1.00	22.91	C
ATOM	1251	C	VAL	A	164	40.089	63.010	29.673	1.00	21.98	C
ATOM	1252	O	VAL	A	164	41.234	63.187	29.311	1.00	21.34	O
ATOM	1253	CB	VAL	A	164	38.284	64.271	28.479	1.00	24.61	C
ATOM	1254	CG1	VAL	A	164	37.088	64.222	27.498	1.00	24.10	C
ATOM	1255	CG2	VAL	A	164	37.827	64.726	29.744	1.00	29.01	C
ATOM	1256	N	TYR	A	165	39.752	62.915	30.957	1.00	21.49	N
ATOM	1257	CA	TYR	A	165	40.753	63.087	32.013	1.00	21.80	C
ATOM	1258	C	TYR	A	165	41.903	62.065	31.848	1.00	21.82	C
ATOM	1259	O	TYR	A	165	43.084	62.406	31.897	1.00	19.66	O
ATOM	1260	CB	TYR	A	165	40.100	62.915	33.410	1.00	21.46	C
ATOM	1261	CG	TYR	A	165	41.080	63.100	34.563	1.00	22.48	C
ATOM	1262	CD1	TYR	A	165	41.922	62.051	34.960	1.00	23.31	C
ATOM	1263	CD2	TYR	A	165	41.222	64.345	35.211	1.00	22.77	C
ATOM	1264	CE1	TYR	A	165	42.891	62.233	35.972	1.00	22.57	C
ATOM	1265	CE2	TYR	A	165	42.187	64.531	36.223	1.00	22.76	C
ATOM	1266	CZ	TYR	A	165	43.011	63.474	36.580	1.00	22.76	C
ATOM	1267	OH	TYR	A	165	44.019	63.659	37.510	1.00	23.86	O
ATOM	1268	N	GLU	A	166	41.515	60.808	31.689	1.00	21.24	N
ATOM	1269	CA	GLU	A	166	42.487	59.732	31.561	1.00	21.43	C
ATOM	1270	C	GLU	A	166	43.301	59.839	30.283	1.00	20.63	C
ATOM	1271	O	GLU	A	166	44.502	59.511	30.295	1.00	21.14	O
ATOM	1272	CB	GLU	A	166	41.762	58.369	31.636	1.00	21.40	C
ATOM	1273	CG	GLU	A	166	41.312	58.027	33.069	1.00	22.06	C
ATOM	1274	CD	GLU	A	166	42.501	58.027	34.034	1.00	22.37	C
ATOM	1275	OE1	GLU	A	166	43.484	57.307	33.762	1.00	22.58	O
ATOM	1276	OE2	GLU	A	166	42.471	58.754	35.055	1.00	22.27	O
ATOM	1277	N	LEU	A	167	42.688	60.299	29.190	1.00	19.60	N
ATOM	1278	CA	LEU	A	167	43.474	60.429	27.955	1.00	20.02	C
ATOM	1279	C	LEU	A	167	44.529	61.566	28.149	1.00	19.36	C
ATOM	1280	O	LEU	A	167	45.694	61.421	27.784	1.00	18.30	O
ATOM	1281	CB	LEU	A	167	42.557	60.755	26.762	1.00	19.49	C
ATOM	1282	CG	LEU	A	167	43.275	61.087	25.441	1.00	20.63	C
ATOM	1283	CD1	LEU	A	167	44.258	59.982	25.034	1.00	18.70	C
ATOM	1284	CD2	LEU	A	167	42.190	61.304	24.344	1.00	19.49	C
ATOM	1285	N	GLN	A	168	44.107	62.691	28.727	1.00	19.97	N
ATOM	1286	CA	GLN	A	168	45.050	63.828	28.940	1.00	20.92	C
ATOM	1287	C	GLN	A	168	46.164	63.327	29.869	1.00	20.99	C
ATOM	1288	O	GLN	A	168	47.350	63.569	29.635	1.00	21.71	O



ATOM	1289	CB	GLN	A	168	44.334	65.038	29.612	1.00	21.21	C
ATOM	1290	CG	GLN	A	168	45.261	66.199	29.940	1.00	21.29	C
ATOM	1291	CD	GLN	A	168	45.630	67.042	28.725	1.00	21.63	C
ATOM	1292	OE1	GLN	A	168	46.002	66.507	27.676	1.00	21.87	O
ATOM	1293	NE2	GLN	A	168	45.565	68.382	28.869	1.00	20.69	N
ATOM	1294	N	LYS	A	169	45.787	62.602	30.917	1.00	20.86	N
ATOM	1295	CA	LYS	A	169	46.815	62.082	31.833	1.00	20.89	C
ATOM	1296	C	LYS	A	169	47.813	61.162	31.114	1.00	20.65	C
ATOM	1297	O	LYS	A	169	49.043	61.249	31.326	1.00	20.39	O
ATOM	1298	CB	LYS	A	169	46.157	61.315	33.003	1.00	21.06	C
ATOM	1299	CG	LYS	A	169	47.175	60.590	33.970	1.00	21.52	C
ATOM	1300	CD	LYS	A	169	46.465	60.130	35.266	1.00	22.85	C
ATOM	1301	CE	LYS	A	169	47.297	59.064	36.039	1.00	24.34	C
ATOM	1302	NZ	LYS	A	169	46.589	58.669	37.328	1.00	25.34	N
ATOM	1303	N	ALA	A	170	47.297	60.286	30.251	1.00	19.72	N
ATOM	1304	CA	ALA	A	170	48.167	59.359	29.527	1.00	19.95	C
ATOM	1305	C	ALA	A	170	49.070	60.087	28.493	1.00	19.18	C
ATOM	1306	O	ALA	A	170	50.249	59.735	28.287	1.00	18.45	O
ATOM	1307	CB	ALA	A	170	47.308	58.278	28.845	1.00	19.45	C
ATOM	1308	N	LEU	A	171	48.510	61.092	27.842	1.00	19.46	N
ATOM	1309	CA	LEU	A	171	49.283	61.918	26.897	1.00	19.80	C
ATOM	1310	C	LEU	A	171	50.439	62.586	27.666	1.00	19.94	C
ATOM	1311	O	LEU	A	171	51.580	62.573	27.210	1.00	20.84	O
ATOM	1312	CB	LEU	A	171	48.409	63.015	26.259	1.00	19.32	C
ATOM	1313	CG	LEU	A	171	47.263	62.521	25.335	1.00	19.88	C
ATOM	1314	CD1	LEU	A	171	46.372	63.708	24.946	1.00	19.56	C
ATOM	1315	CD2	LEU	A	171	47.840	61.873	24.079	1.00	19.70	C
ATOM	1316	N	ILE	A	172	50.152	63.145	28.838	1.00	20.61	N
ATOM	1317	CA	ILE	A	172	51.207	63.791	29.630	1.00	20.32	C
ATOM	1318	C	ILE	A	172	52.265	62.771	30.068	1.00	20.78	C
ATOM	1319	O	ILE	A	172	53.487	63.014	29.950	1.00	20.35	O
ATOM	1320	CB	ILE	A	172	50.568	64.499	30.840	1.00	20.37	C
ATOM	1321	CG1	ILE	A	172	49.815	65.736	30.324	1.00	20.21	C
ATOM	1322	CG2	ILE	A	172	51.626	64.853	31.898	1.00	20.46	C
ATOM	1323	CD1	ILE	A	172	48.944	66.388	31.370	1.00	20.09	C
ATOM	1324	N	ALA	A	173	51.822	61.601	30.535	1.00	20.95	N
ATOM	1325	CA	ALA	A	173	52.803	60.589	30.948	1.00	20.91	C
ATOM	1326	C	ALA	A	173	53.777	60.255	29.805	1.00	21.14	C
ATOM	1327	O	ALA	A	173	54.980	60.021	30.035	1.00	22.23	O
ATOM	1328	CB	ALA	A	173	52.083	59.286	31.438	1.00	20.32	C
ATOM	1329	N	ALA	A	174	53.255	60.221	28.587	1.00	20.77	N
ATOM	1330	CA	ALA	A	174	54.030	59.898	27.404	1.00	21.07	C
ATOM	1331	C	ALA	A	174	54.900	61.088	26.961	1.00	21.08	C
ATOM	1332	O	ALA	A	174	55.760	60.919	26.110	1.00	20.74	O
ATOM	1333	CB	ALA	A	174	53.089	59.480	26.221	1.00	20.48	C
ATOM	1334	N	GLY	A	175	54.660	62.275	27.523	1.00	21.51	N
ATOM	1335	CA	GLY	A	175	55.491	63.441	27.190	1.00	21.60	C
ATOM	1336	C	GLY	A	175	54.906	64.443	26.212	1.00	21.59	C
ATOM	1337	O	GLY	A	175	55.657	65.158	25.536	1.00	22.24	O
ATOM	1338	N	VAL	A	176	53.581	64.528	26.135	1.00	20.85	N
ATOM	1339	CA	VAL	A	176	52.958	65.465	25.201	1.00	21.49	C
ATOM	1340	C	VAL	A	176	53.168	66.926	25.650	1.00	21.95	C
ATOM	1341	O	VAL	A	176	53.308	67.200	26.844	1.00	22.25	O
ATOM	1342	CB	VAL	A	176	51.409	65.170	25.057	1.00	21.66	C
ATOM	1343	CG1	VAL	A	176	50.578	66.034	26.045	1.00	21.04	C
ATOM	1344	CG2	VAL	A	176	50.963	65.412	23.597	1.00	21.02	C
ATOM	1345	N	ALA	A	177	53.174	67.861	24.697	1.00	23.05	N
ATOM	1346	CA	ALA	A	177	53.346	69.309	25.009	1.00	22.26	C
ATOM	1347	C	ALA	A	177	51.981	70.009	24.984	1.00	22.66	C
ATOM	1348	O	ALA	A	177	51.728	70.972	25.729	1.00	22.16	O
ATOM	1349	CB	ALA	A	177	54.297	69.950	23.974	1.00	22.70	C
ATOM	1350	N	GLY	A	178	51.104	69.529	24.100	1.00	22.74	N
ATOM	1351	CA	GLY	A	178	49.768	70.090	23.995	1.00	22.93	C
ATOM	1352	C	GLY	A	178	48.785	69.078	23.421	1.00	22.60	C
ATOM	1353	O	GLY	A	178	49.193	68.099	22.787	1.00	23.07	O
ATOM	1354	N	SER	A	179	47.495	69.305	23.632	1.00	22.71	N
ATOM	1355	CA	SER	A	179	46.482	68.375	23.122	1.00	22.61	C
ATOM	1356	C	SER	A	179	45.241	69.135	22.719	1.00	23.04	C
ATOM	1357	O	SER	A	179	44.910	70.156	23.354	1.00	22.69	O
ATOM	1358	CB	SER	A	179	46.138	67.348	24.196	1.00	21.98	C
ATOM	1359	OG	SER	A	179	45.789	68.015	25.391	1.00	23.27	O
ATOM	1360	N	HIS	A	180	44.551	68.643	21.681	1.00	23.14	N
ATOM	1361	CA	HIS	A	180	43.338	69.310	21.218	1.00	23.02	C
ATOM	1362	C	HIS	A	180	42.131	68.438	21.461	1.00	23.67	C
ATOM	1363	O	HIS	A	180	42.239	67.190	21.450	1.00	23.31	O
ATOM	1364	CB	HIS	A	180	43.455	69.767	19.740	1.00	23.22	C
ATOM	1365	CG	HIS	A	180	43.609	68.672	18.713	1.00	22.55	C
ATOM	1366	ND1	HIS	A	180	42.546	67.912	18.271	1.00	22.61	N
ATOM	1367	CD2	HIS	A	180	44.636	68.385	17.877	1.00	23.05	C
ATOM	1368	CE1	HIS	A	180	42.902	67.226	17.193	1.00	22.16	C



ATOM	1369	NE2	HIS	A	180	44.166	67.494	16.930	1.00	23.61	N
ATOM	1370	N	TRP	A	181	41.002	69.106	21.713	1.00	23.21	N
ATOM	1371	CA	TRP	A	181	39.748	68.465	22.112	1.00	23.07	C
ATOM	1372	C	TRP	A	181	38.625	69.106	21.322	1.00	23.60	C
ATOM	1373	O	TRP	A	181	38.572	70.348	21.260	1.00	23.43	O
ATOM	1374	CB	TRP	A	181	39.559	68.710	23.616	1.00	21.24	C
ATOM	1375	CG	TRP	A	181	40.801	68.293	24.388	1.00	22.61	C
ATOM	1376	CD1	TRP	A	181	41.942	69.044	24.604	1.00	21.86	C
ATOM	1377	CD2	TRP	A	181	41.087	66.985	24.911	1.00	22.10	C
ATOM	1378	NE1	TRP	A	181	42.907	68.278	25.219	1.00	22.72	N
ATOM	1379	CE2	TRP	A	181	42.413	67.013	25.422	1.00	22.77	C
ATOM	1380	CE3	TRP	A	181	40.354	65.785	24.985	1.00	23.36	C
ATOM	1381	CZ2	TRP	A	181	43.028	65.885	26.007	1.00	22.58	C
ATOM	1382	CZ3	TRP	A	181	40.967	64.656	25.565	1.00	22.55	C
ATOM	1383	CH2	TRP	A	181	42.291	64.716	26.070	1.00	22.46	C
ATOM	1384	N	GLU	A	182	37.734	68.290	20.743	1.00	22.93	N
ATOM	1385	CA	GLU	A	182	36.658	68.814	19.895	1.00	23.56	C
ATOM	1386	C	GLU	A	182	35.266	68.529	20.457	1.00	23.75	C
ATOM	1387	O	GLU	A	182	35.080	67.631	21.305	1.00	22.83	O
ATOM	1388	CB	GLU	A	182	36.796	68.252	18.459	1.00	23.46	C
ATOM	1389	CG	GLU	A	182	36.561	66.729	18.378	1.00	23.89	C
ATOM	1390	CD	GLU	A	182	37.173	66.138	17.142	1.00	25.13	C
ATOM	1391	OE1	GLU	A	182	38.382	66.417	16.894	1.00	23.65	O
ATOM	1392	OE2	GLU	A	182	36.446	65.396	16.423	1.00	25.43	O
ATOM	1393	N	ASP	A	183	34.301	69.322	19.979	1.00	24.08	N
ATOM	1394	CA	ASP	A	183	32.931	69.293	20.480	1.00	23.93	C
ATOM	1395	C	ASP	A	183	31.900	68.472	19.715	1.00	24.28	C
ATOM	1396	O	ASP	A	183	30.727	68.883	19.563	1.00	24.07	O
ATOM	1397	CB	ASP	A	183	32.430	70.745	20.633	1.00	23.17	C
ATOM	1398	CG	ASP	A	183	32.517	71.538	19.321	1.00	24.54	C
ATOM	1399	OD1	ASP	A	183	32.855	70.941	18.245	1.00	23.69	O
ATOM	1400	OD2	ASP	A	183	32.246	72.762	19.377	1.00	23.59	O
ATOM	1401	N	GLN	A	184	32.305	67.311	19.224	1.00	24.79	N
ATOM	1402	CA	GLN	A	184	31.355	66.456	18.519	1.00	25.55	C
ATOM	1403	C	GLN	A	184	31.286	65.057	19.138	1.00	26.77	C
ATOM	1404	O	GLN	A	184	32.153	64.676	19.954	1.00	26.15	O
ATOM	1405	CB	GLN	A	184	31.751	66.329	17.036	1.00	25.39	C
ATOM	1406	CG	GLN	A	184	32.931	65.422	16.773	1.00	25.55	C
ATOM	1407	CD	GLN	A	184	33.073	65.082	15.285	1.00	25.92	C
ATOM	1408	OE1	GLN	A	184	32.155	64.510	14.687	1.00	25.04	O
ATOM	1409	NE2	GLN	A	184	34.211	65.449	14.682	1.00	24.92	N
ATOM	1410	N	LEU	A	185	30.262	64.289	18.747	1.00	27.53	N
ATOM	1411	CA	LEU	A	185	30.128	62.898	19.203	1.00	28.47	C
ATOM	1412	C	LEU	A	185	30.314	62.076	17.898	1.00	28.83	C
ATOM	1413	O	LEU	A	185	29.337	61.722	17.208	1.00	27.56	O
ATOM	1414	CB	LEU	A	185	28.741	62.666	19.809	1.00	28.28	C
ATOM	1415	CG	LEU	A	185	28.426	61.239	20.286	1.00	28.54	C
ATOM	1416	CD1	LEU	A	185	29.491	60.748	21.307	1.00	29.61	C
ATOM	1417	CD2	LEU	A	185	27.021	61.227	20.892	1.00	29.07	C
ATOM	1418	N	ALA	A	186	31.577	61.838	17.531	1.00	29.18	N
ATOM	1419	CA	ALA	A	186	31.883	61.114	16.292	1.00	30.31	C
ATOM	1420	C	ALA	A	186	31.176	59.762	16.189	1.00	31.71	C
ATOM	1421	O	ALA	A	186	30.716	59.392	15.106	1.00	32.46	O
ATOM	1422	CB	ALA	A	186	33.415	60.935	16.136	1.00	29.94	C
ATOM	1423	N	SER	A	187	31.048	59.034	17.301	1.00	32.25	N
ATOM	1424	CA	SER	A	187	30.409	57.720	17.243	1.00	33.62	C
ATOM	1425	C	SER	A	187	28.933	57.734	16.834	1.00	33.77	C
ATOM	1426	O	SER	A	187	28.334	56.681	16.659	1.00	33.60	O
ATOM	1427	CB	SER	A	187	30.560	56.976	18.568	1.00	33.43	C
ATOM	1428	OG	SER	A	187	30.053	57.710	19.676	1.00	34.19	O
ATOM	1429	N	GLU	A	188	28.342	58.910	16.685	1.00	33.93	N
ATOM	1430	CA	GLU	A	188	26.945	58.970	16.281	1.00	34.97	C
ATOM	1431	C	GLU	A	188	26.810	59.719	14.954	1.00	35.56	C
ATOM	1432	O	GLU	A	188	25.708	60.071	14.552	1.00	34.31	O
ATOM	1433	CB	GLU	A	188	26.063	59.647	17.343	1.00	35.56	C
ATOM	1434	CG	GLU	A	188	25.868	58.868	18.671	1.00	36.05	C
ATOM	1435	CD	GLU	A	188	25.256	57.468	18.494	1.00	37.21	C
ATOM	1436	OE1	GLU	A	188	24.418	57.258	17.579	1.00	38.43	O
ATOM	1437	OE2	GLU	A	188	25.612	56.571	19.285	1.00	37.67	C
ATOM	1438	N	LYS	A	189	27.930	59.958	14.282	1.00	37.00	N
ATOM	1439	CA	LYS	A	189	27.903	60.625	12.987	1.00	40.03	C
ATOM	1440	C	LYS	A	189	26.920	59.882	12.058	1.00	41.68	C
ATOM	1441	O	LYS	A	189	26.985	58.655	11.906	1.00	40.82	O
ATOM	1442	CB	LYS	A	189	29.294	60.631	12.356	1.00	40.48	C
ATOM	1443	CG	LYS	A	189	29.328	61.446	11.053	1.00	42.79	C
ATOM	1444	CD	LYS	A	189	30.752	61.612	10.505	1.00	44.36	C
ATOM	1445	CE	LYS	A	189	31.298	60.298	9.932	1.00	45.27	C
ATOM	1446	NZ	LYS	A	189	30.588	59.904	8.654	1.00	46.03	N
ATOM	1447	N	LYS	A	190	25.999	60.627	11.467	1.00	44.25	N
ATOM	1448	CA	LYS	A	190	25.016	60.035	10.580	1.00	47.60	C



ATOM	1449	C	LYS	A	190	25.460	60.071	9.120	1.00	49.42	C
ATOM	1450	O	LYS	A	190	25.857	61.116	8.604	1.00	48.83	O
ATOM	1451	CB	LYS	A	190	23.665	60.741	10.739	1.00	47.98	C
ATOM	1452	CG	LYS	A	190	23.031	60.506	12.105	1.00	50.13	C
ATOM	1453	CD	LYS	A	190	22.602	59.035	12.280	1.00	50.27	C
ATOM	1454	CE	LYS	A	190	22.280	58.667	13.767	1.00	51.10	C
ATOM	1455	NZ	LYS	A	190	23.448	58.363	14.695	1.00	49.91	N
ATOM	1456	N	CYS	A	191	25.397	58.908	8.469	1.00	51.84	N
ATOM	1457	CA	CYS	A	191	25.764	58.779	7.059	1.00	54.66	C
ATOM	1458	C	CYS	A	191	24.621	59.177	6.136	1.00	55.22	C
ATOM	1459	O	CYS	A	191	23.439	59.119	6.497	1.00	55.51	O
ATOM	1460	CB	CYS	A	191	26.132	57.331	6.704	1.00	55.79	C
ATOM	1461	SG	CYS	A	191	27.316	56.578	7.802	1.00	59.63	S
ATOM	1462	N	GLY	A	192	25.011	59.576	4.937	1.00	56.06	N
ATOM	1463	CA	GLY	A	192	24.065	59.925	3.902	1.00	56.81	C
ATOM	1464	C	GLY	A	192	23.182	61.134	4.055	1.00	57.07	C
ATOM	1465	O	GLY	A	192	23.401	61.997	4.907	1.00	57.04	O
ATOM	1466	N	HIS	A	193	22.168	61.159	3.192	1.00	56.94	N
ATOM	1467	CA	HIS	A	193	21.187	62.221	3.123	1.00	56.54	C
ATOM	1468	C	HIS	A	193	20.686	62.713	4.482	1.00	55.13	C
ATOM	1469	O	HIS	A	193	20.197	61.936	5.307	1.00	54.55	O
ATOM	1470	CB	HIS	A	193	20.015	61.761	2.258	1.00	57.86	C
ATOM	1471	CG	HIS	A	193	18.999	62.831	2.017	1.00	59.51	C
ATOM	1472	ND1	HIS	A	193	19.347	64.116	1.656	1.00	60.00	N
ATOM	1473	CD2	HIS	A	193	17.647	62.816	2.108	1.00	60.06	C
ATOM	1474	CE1	HIS	A	193	18.252	64.848	1.540	1.00	60.56	C
ATOM	1475	NE2	HIS	A	193	17.208	64.084	1.808	1.00	60.65	N
ATOM	1476	N	LEU	A	194	20.824	64.019	4.689	1.00	53.58	N
ATOM	1477	CA	LEU	A	194	20.417	64.695	5.920	1.00	52.35	C
ATOM	1478	C	LEU	A	194	21.203	64.263	7.176	1.00	50.79	C
ATOM	1479	O	LEU	A	194	20.790	64.550	8.300	1.00	50.36	O
ATOM	1480	CB	LEU	A	194	18.907	64.520	6.143	1.00	52.78	C
ATOM	1481	CG	LEU	A	194	17.986	65.241	5.148	1.00	53.42	C
ATOM	1482	CD1	LEU	A	194	16.545	64.869	5.412	1.00	53.13	C
ATOM	1483	CD2	LEU	A	194	18.165	66.740	5.282	1.00	53.74	C
ATOM	1484	N	GLY	A	195	22.329	63.582	6.971	1.00	48.66	N
ATOM	1485	CA	GLY	A	195	23.161	63.151	8.082	1.00	46.34	C
ATOM	1486	C	GLY	A	195	24.206	64.211	8.408	1.00	44.37	C
ATOM	1487	O	GLY	A	195	23.960	65.408	8.197	1.00	44.15	O
ATOM	1488	N	GLY	A	196	25.364	63.777	8.913	1.00	41.54	N
ATOM	1489	CA	GLY	A	196	26.437	64.699	9.257	1.00	38.39	C
ATOM	1490	C	GLY	A	196	26.950	64.524	10.691	1.00	36.04	C
ATOM	1491	O	GLY	A	196	26.463	63.664	11.434	1.00	35.85	O
ATOM	1492	N	LYS	A	197	27.933	65.337	11.071	1.00	32.88	N
ATOM	1493	CA	LYS	A	197	28.514	65.298	12.409	1.00	30.16	C
ATOM	1494	C	LYS	A	197	27.474	65.795	13.443	1.00	28.55	C
ATOM	1495	O	LYS	A	197	26.571	66.598	13.125	1.00	27.37	O
ATOM	1496	CB	LYS	A	197	29.772	66.174	12.464	1.00	28.98	C
ATOM	1497	CG	LYS	A	197	30.922	65.667	11.594	1.00	27.32	C
ATOM	1498	CD	LYS	A	197	32.176	66.536	11.747	1.00	27.75	C
ATOM	1499	CE	LYS	A	197	31.959	67.984	11.294	1.00	27.37	C
ATOM	1500	NZ	LYS	A	197	33.202	68.854	11.359	1.00	26.12	N
ATOM	1501	N	VAL	A	198	27.599	65.286	14.663	1.00	27.12	N
ATOM	1502	CA	VAL	A	198	26.705	65.637	15.768	1.00	26.35	C
ATOM	1503	C	VAL	A	198	27.502	66.380	16.846	1.00	26.39	C
ATOM	1504	O	VAL	A	198	28.473	65.847	17.405	1.00	25.73	O
ATOM	1505	CB	VAL	A	198	26.102	64.388	16.418	1.00	25.98	C
ATOM	1506	CG1	VAL	A	198	25.118	64.806	17.553	1.00	25.25	C
ATOM	1507	CG2	VAL	A	198	25.376	63.520	15.335	1.00	25.23	C
ATOM	1508	N	LEU	A	199	27.115	67.614	17.130	1.00	25.66	N
ATOM	1509	CA	LEU	A	199	27.800	68.362	18.173	1.00	25.61	C
ATOM	1510	C	LEU	A	199	27.272	67.999	19.553	1.00	25.63	C
ATOM	1511	O	LEU	A	199	26.187	67.375	19.694	1.00	24.84	O
ATOM	1512	CB	LEU	A	199	27.570	69.856	17.984	1.00	25.73	C
ATOM	1513	CG	LEU	A	199	28.027	70.518	16.686	1.00	26.02	C
ATOM	1514	CD1	LEU	A	199	27.651	72.007	16.727	1.00	26.05	C
ATOM	1515	CD2	LEU	A	199	29.528	70.345	16.529	1.00	25.10	C
ATOM	1516	N	ILE	A	200	28.051	68.350	20.584	1.00	25.63	N
ATOM	1517	CA	ILE	A	200	27.548	68.182	21.942	1.00	25.57	C
ATOM	1518	C	ILE	A	200	27.296	69.629	22.424	1.00	25.69	C
ATOM	1519	O	ILE	A	200	27.741	70.609	21.781	1.00	25.05	O
ATOM	1520	CB	ILE	A	200	28.512	67.392	22.884	1.00	26.38	C
ATOM	1521	CG1	ILE	A	200	29.996	67.689	22.587	1.00	27.87	C
ATOM	1522	CG2	ILE	A	200	28.324	65.886	22.633	1.00	26.42	C
ATOM	1523	CD1	ILE	A	200	30.560	68.968	23.161	1.00	27.65	C
ATOM	1524	N	PRO	A	201	26.584	69.794	23.542	1.00	25.32	N
ATOM	1525	CA	PRO	A	201	26.309	71.155	24.037	1.00	25.07	C
ATOM	1526	C	PRO	A	201	27.554	71.964	24.384	1.00	25.60	C
ATOM	1527	O	PRO	A	201	28.573	71.400	24.797	1.00	25.39	O
ATOM	1528	CB	PRO	A	201	25.456	70.908	25.275	1.00	24.54	C



ATOM	1529	CG	PRO	A	201	24.732	69.587	24.945	1.00	25.65	C
ATOM	1530	CD	PRO	A	201	25.887	68.774	24.349	1.00	24.88	C
ATOM	1531	N	THR	A	202	27.465	73.292	24.262	1.00	25.84	N
ATOM	1532	CA	THR	A	202	28.603	74.138	24.608	1.00	26.08	C
ATOM	1533	C	THR	A	202	29.118	73.828	26.028	1.00	26.54	C
ATOM	1534	O	THR	A	202	30.333	73.709	26.246	1.00	25.96	O
ATOM	1535	CB	THR	A	202	28.219	75.644	24.490	1.00	26.26	C
ATOM	1536	OG1	THR	A	202	27.996	75.953	23.101	1.00	25.32	O
ATOM	1537	CG2	THR	A	202	29.366	76.549	25.018	1.00	25.85	C
ATOM	1538	N	GLN	A	203	28.211	73.661	26.992	1.00	26.60	N
ATOM	1539	CA	GLN	A	203	28.657	73.380	28.352	1.00	28.00	C
ATOM	1540	C	GLN	A	203	29.399	72.034	28.472	1.00	26.68	C
ATOM	1541	O	GLN	A	203	30.324	71.883	29.281	1.00	26.25	O
ATOM	1542	CB	GLN	A	203	27.483	73.402	29.338	1.00	30.03	C
ATOM	1543	CG	GLN	A	203	27.950	73.319	30.801	1.00	32.75	C
ATOM	1544	CD	GLN	A	203	28.901	74.478	31.212	1.00	34.94	C
ATOM	1545	OE1	GLN	A	203	28.743	75.636	30.778	1.00	35.21	O
ATOM	1546	NE2	GLN	A	203	29.879	74.162	32.080	1.00	35.95	N
ATOM	1547	N	GLN	A	204	29.006	71.058	27.670	1.00	25.79	N
ATOM	1548	CA	GLN	A	204	29.701	69.769	27.741	1.00	25.36	C
ATOM	1549	C	GLN	A	204	31.131	69.940	27.222	1.00	25.21	C
ATOM	1550	O	GLN	A	204	32.049	69.316	27.731	1.00	25.87	O
ATOM	1551	CB	GLN	A	204	28.992	68.683	26.919	1.00	25.74	C
ATOM	1552	CG	GLN	A	204	29.716	67.289	27.027	1.00	27.00	C
ATOM	1553	CD	GLN	A	204	28.850	66.140	26.470	1.00	27.97	C
ATOM	1554	OE1	GLN	A	204	27.620	66.179	26.553	1.00	27.38	O
ATOM	1555	NE2	GLN	A	204	29.498	65.133	25.904	1.00	27.66	N
ATOM	1556	N	HIS	A	205	31.340	70.758	26.201	1.00	24.29	N
ATOM	1557	CA	HIS	A	205	32.710	70.933	25.742	1.00	24.59	C
ATOM	1558	C	HIS	A	205	33.562	71.701	26.756	1.00	25.10	C
ATOM	1559	O	HIS	A	205	34.769	71.467	26.858	1.00	25.13	O
ATOM	1560	CB	HIS	A	205	32.792	71.617	24.377	1.00	24.34	C
ATOM	1561	CG	HIS	A	205	34.099	71.364	23.707	1.00	24.83	C
ATOM	1562	ND1	HIS	A	205	34.645	70.096	23.635	1.00	24.76	N
ATOM	1563	CD2	HIS	A	205	35.024	72.205	23.187	1.00	24.66	C
ATOM	1564	CE1	HIS	A	205	35.851	70.167	23.103	1.00	24.05	C
ATOM	1565	NE2	HIS	A	205	36.108	71.435	22.823	1.00	25.06	N
ATOM	1566	N	ILE	A	206	32.938	72.627	27.496	1.00	24.93	N
ATOM	1567	CA	ILE	A	206	33.653	73.362	28.546	1.00	24.36	C
ATOM	1568	C	ILE	A	206	34.024	72.333	29.619	1.00	23.76	C
ATOM	1569	O	ILE	A	206	35.102	72.404	30.215	1.00	24.41	O
ATOM	1570	CB	ILE	A	206	32.763	74.493	29.138	1.00	24.27	C
ATOM	1571	CG1	ILE	A	206	32.650	75.612	28.091	1.00	24.96	C
ATOM	1572	CG2	ILE	A	206	33.341	74.977	30.479	1.00	24.58	C
ATOM	1573	CD1	ILE	A	206	31.666	76.765	28.457	1.00	25.95	C
ATOM	1574	N	ARG	A	207	33.137	71.381	29.890	1.00	23.17	N
ATOM	1575	CA	ARG	A	207	33.467	70.301	30.836	1.00	23.57	C
ATOM	1576	C	ARG	A	207	34.708	69.559	30.307	1.00	23.63	C
ATOM	1577	O	ARG	A	207	35.664	69.272	31.064	1.00	24.01	O
ATOM	1578	CB	ARG	A	207	32.291	69.311	30.955	1.00	24.08	C
ATOM	1579	CG	ARG	A	207	32.471	68.196	31.983	1.00	24.95	C
ATOM	1580	CD	ARG	A	207	31.277	67.180	31.929	1.00	25.51	C
ATOM	1581	NE	ARG	A	207	31.411	66.321	30.738	1.00	26.42	N
ATOM	1582	CZ	ARG	A	207	30.491	65.441	30.346	1.00	27.31	C
ATOM	1583	NH1	ARG	A	207	29.363	65.299	31.047	1.00	26.12	N
ATOM	1584	NH2	ARG	A	207	30.701	64.693	29.263	1.00	26.93	N
ATOM	1585	N	THR	A	208	34.703	69.225	29.011	1.00	23.32	N
ATOM	1586	CA	THR	A	208	35.868	68.539	28.433	1.00	22.60	C
ATOM	1587	C	THR	A	208	37.169	69.341	28.631	1.00	22.18	C
ATOM	1588	O	THR	A	208	38.193	68.810	29.115	1.00	20.41	O
ATOM	1589	CB	THR	A	208	35.668	68.258	26.927	1.00	22.44	C
ATOM	1590	OG1	THR	A	208	34.645	67.244	26.765	1.00	22.26	O
ATOM	1591	CG2	THR	A	208	36.981	67.769	26.298	1.00	21.85	C
ATOM	1592	N	LEU	A	209	37.126	70.619	28.262	1.00	22.17	N
ATOM	1593	CA	LEU	A	209	38.310	71.477	28.384	1.00	23.01	C
ATOM	1594	C	LEU	A	209	38.730	71.631	29.853	1.00	22.52	C
ATOM	1595	O	LEU	A	209	39.918	71.690	30.173	1.00	22.89	O
ATOM	1596	CB	LEU	A	209	38.021	72.859	27.751	1.00	22.35	C
ATOM	1597	CG	LEU	A	209	37.692	72.819	26.243	1.00	22.69	C
ATOM	1598	CD1	LEU	A	209	37.173	74.203	25.732	1.00	20.91	C
ATOM	1599	CD2	LEU	A	209	38.920	72.383	25.486	1.00	21.71	C
ATOM	1600	N	THR	A	210	37.757	71.671	30.744	1.00	23.14	N
ATOM	1601	CA	THR	A	210	38.044	71.838	32.172	1.00	23.82	C
ATOM	1602	C	THR	A	210	38.694	70.554	32.696	1.00	24.17	C
ATOM	1603	O	THR	A	210	39.635	70.599	33.493	1.00	23.45	O
ATOM	1604	CB	THR	A	210	36.739	72.185	32.945	1.00	24.12	C
ATOM	1605	OG1	THR	A	210	36.277	73.488	32.524	1.00	24.45	O
ATOM	1606	CG2	THR	A	210	36.984	72.209	34.478	1.00	24.01	C
ATOM	1607	N	SER	A	211	38.185	69.407	32.232	1.00	23.57	N
ATOM	1608	CA	SER	A	211	38.751	68.125	32.613	1.00	23.83	C

PDB ID: 1A66



ATOM	1609	C	SER	A	211	40.184	67.968	32.050	1.00	23.85	C
ATOM	1610	O	SER	A	211	41.048	67.433	32.732	1.00	23.69	O
ATOM	1611	CB	SER	A	211	37.852	66.973	32.136	1.00	24.75	C
ATOM	1612	OG	SER	A	211	38.490	65.712	32.404	1.00	26.60	O
ATOM	1613	N	ALA	A	212	40.449	68.400	30.812	1.00	24.13	N
ATOM	1614	CA	ALA	A	212	41.826	68.312	30.277	1.00	24.15	C
ATOM	1615	C	ALA	A	212	42.805	69.206	31.094	1.00	23.88	C
ATOM	1616	O	ALA	A	212	43.943	68.833	31.338	1.00	24.18	O
ATOM	1617	CB	ALA	A	212	41.856	68.729	28.813	1.00	24.56	C
ATOM	1618	N	ARG	A	213	42.350	70.388	31.492	1.00	23.68	N
ATOM	1619	CA	ARG	A	213	43.165	71.302	32.290	1.00	23.39	C
ATOM	1620	C	ARG	A	213	43.377	70.706	33.677	1.00	22.89	C
ATOM	1621	O	ARG	A	213	44.488	70.745	34.202	1.00	22.97	O
ATOM	1622	CB	ARG	A	213	42.469	72.682	32.447	1.00	23.42	C
ATOM	1623	CG	ARG	A	213	43.358	73.683	33.217	1.00	22.86	C
ATOM	1624	CD	ARG	A	213	44.465	74.262	32.320	1.00	23.84	C
ATOM	1625	NE	ARG	A	213	43.931	75.242	31.357	1.00	25.14	N
ATOM	1626	CZ	ARG	A	213	44.593	75.646	30.268	1.00	26.92	C
ATOM	1627	NH1	ARG	A	213	45.803	75.149	30.016	1.00	25.44	N
ATOM	1628	NH2	ARG	A	213	44.041	76.531	29.415	1.00	26.58	N
ATOM	1629	N	LEU	A	214	42.312	70.168	34.282	1.00	22.50	N
ATOM	1630	CA	LEU	A	214	42.440	69.544	35.594	1.00	22.90	C
ATOM	1631	C	LEU	A	214	43.502	68.408	35.580	1.00	23.72	C
ATOM	1632	O	LEU	A	214	44.351	68.305	36.487	1.00	23.53	O
ATOM	1633	CB	LEU	A	214	41.096	68.963	36.083	1.00	22.70	C
ATOM	1634	CG	LEU	A	214	41.169	68.232	37.454	1.00	22.73	C
ATOM	1635	CD1	LEU	A	214	41.581	69.270	38.549	1.00	23.24	C
ATOM	1636	CD2	LEU	A	214	39.831	67.596	37.822	1.00	22.50	C
ATOM	1637	N	ALA	A	215	43.439	67.524	34.579	1.00	22.72	N
ATOM	1638	CA	ALA	A	215	44.419	66.420	34.518	1.00	21.86	C
ATOM	1639	C	ALA	A	215	45.853	67.004	34.401	1.00	22.27	C
ATOM	1640	O	ALA	A	215	46.806	66.480	34.983	1.00	21.39	O
ATOM	1641	CB	ALA	A	215	44.102	65.504	33.288	1.00	21.23	C
ATOM	1642	N	ALA	A	216	46.013	68.080	33.622	1.00	22.16	N
ATOM	1643	CA	ALA	A	216	47.342	68.707	33.470	1.00	22.44	C
ATOM	1644	C	ALA	A	216	47.793	69.304	34.829	1.00	22.66	C
ATOM	1645	O	ALA	A	216	48.969	69.165	35.238	1.00	23.56	O
ATOM	1646	CB	ALA	A	216	47.285	69.820	32.370	1.00	21.90	C
ATOM	1647	N	ASP	A	217	46.860	69.929	35.539	1.00	22.15	N
ATOM	1648	CA	ASP	A	217	47.165	70.509	36.841	1.00	23.42	C
ATOM	1649	C	ASP	A	217	47.505	69.412	37.850	1.00	23.55	C
ATOM	1650	O	ASP	A	217	48.465	69.539	38.623	1.00	22.90	O
ATOM	1651	CB	ASP	A	217	45.985	71.355	37.366	1.00	23.44	C
ATOM	1652	CG	ASP	A	217	45.854	72.691	36.650	1.00	23.96	C
ATOM	1653	OD1	ASP	A	217	46.844	73.133	36.010	1.00	24.12	O
ATOM	1654	OD2	ASP	A	217	44.762	73.305	36.748	1.00	23.59	O
ATOM	1655	N	VAL	A	218	46.729	68.331	37.865	1.00	23.56	N
ATOM	1656	CA	VAL	A	218	47.054	67.258	38.804	1.00	22.98	C
ATOM	1657	C	VAL	A	218	48.438	66.650	38.507	1.00	23.38	C
ATOM	1658	O	VAL	A	218	49.188	66.278	39.435	1.00	22.65	O
ATOM	1659	CB	VAL	A	218	45.954	66.163	38.809	1.00	23.24	C
ATOM	1660	CG1	VAL	A	218	46.406	64.937	39.632	1.00	22.35	C
ATOM	1661	CG2	VAL	A	218	44.666	66.729	39.401	1.00	22.07	C
ATOM	1662	N	ALA	A	219	48.777	66.568	37.223	1.00	23.12	N
ATOM	1663	CA	ALA	A	219	50.050	66.031	36.789	1.00	23.72	C
ATOM	1664	C	ALA	A	219	51.151	67.085	36.900	1.00	24.56	C
ATOM	1665	O	ALA	A	219	52.287	66.825	36.551	1.00	25.81	O
ATOM	1666	CB	ALA	A	219	49.956	65.517	35.330	1.00	23.14	C
ATOM	1667	N	ASP	A	220	50.800	68.288	37.353	1.00	25.57	N
ATOM	1668	CA	ASP	A	220	51.773	69.377	37.566	1.00	25.81	C
ATOM	1669	C	ASP	A	220	52.571	69.814	36.330	1.00	25.14	C
ATOM	1670	O	ASP	A	220	53.779	70.058	36.421	1.00	25.19	O
ATOM	1671	CB	ASP	A	220	52.720	68.975	38.728	1.00	25.97	C
ATOM	1672	CG	ASP	A	220	53.609	70.149	39.245	1.00	27.49	C
ATOM	1673	OD1	ASP	A	220	53.171	71.321	39.274	1.00	25.83	O
ATOM	1674	OD2	ASP	A	220	54.760	69.852	39.632	1.00	27.65	O
ATOM	1675	N	VAL	A	221	51.924	69.909	35.171	1.00	23.83	N
ATOM	1676	CA	VAL	A	221	52.630	70.359	33.974	1.00	23.88	C
ATOM	1677	C	VAL	A	221	51.743	71.379	33.293	1.00	24.21	C
ATOM	1678	O	VAL	A	221	50.521	71.267	33.334	1.00	24.58	O
ATOM	1679	CB	VAL	A	221	52.968	69.211	33.003	1.00	24.82	C
ATOM	1680	CG1	VAL	A	221	54.053	68.314	33.617	1.00	24.66	C
ATOM	1681	CG2	VAL	A	221	51.705	68.377	32.699	1.00	23.85	C
ATOM	1682	N	PRO	A	222	52.346	72.384	32.624	1.00	25.15	N
ATOM	1683	CA	PRO	A	222	51.582	73.444	31.944	1.00	24.50	C
ATOM	1684	C	PRO	A	222	51.158	73.121	30.505	1.00	24.25	C
ATOM	1685	O	PRO	A	222	51.358	73.930	29.571	1.00	22.92	O
ATOM	1686	CB	PRO	A	222	52.539	74.629	32.020	1.00	25.35	C
ATOM	1687	CG	PRO	A	222	53.907	73.978	31.781	1.00	24.39	C
ATOM	1688	CD	PRO	A	222	53.808	72.633	32.547	1.00	25.31	C



ATOM	1689	N	THR	A	223	50.556	71.944	30.337	1.00	23.56	N
ATOM	1690	CA	THR	A	223	50.155	71.486	29.007	1.00	22.91	C
ATOM	1691	C	THR	A	223	49.384	72.522	28.216	1.00	22.81	C
ATOM	1692	O	THR	A	223	48.529	73.181	28.783	1.00	23.60	O
ATOM	1693	CB	THR	A	223	49.289	70.221	29.155	1.00	22.30	C
ATOM	1694	OG1	THR	A	223	50.005	69.301	29.976	1.00	20.38	O
ATOM	1695	CG2	THR	A	223	49.017	69.584	27.779	1.00	22.04	C
ATOM	1696	N	VAL	A	224	49.658	72.667	26.919	1.00	23.12	N
ATOM	1697	CA	VAL	A	224	48.904	73.624	26.100	1.00	23.78	C
ATOM	1698	C	VAL	A	224	47.561	72.940	25.730	1.00	24.49	C
ATOM	1699	O	VAL	A	224	47.549	71.843	25.176	1.00	24.80	O
ATOM	1700	CB	VAL	A	224	49.706	74.013	24.818	1.00	24.14	C
ATOM	1701	CG1	VAL	A	224	48.885	74.917	23.916	1.00	24.20	C
ATOM	1702	CG2	VAL	A	224	51.022	74.715	25.238	1.00	23.63	C
ATOM	1703	N	VAL	A	225	46.441	73.580	26.042	1.00	24.20	N
ATOM	1704	CA	VAL	A	225	45.120	73.002	25.767	1.00	24.45	C
ATOM	1705	C	VAL	A	225	44.483	73.720	24.596	1.00	25.05	C
ATOM	1706	O	VAL	A	225	44.334	74.959	24.625	1.00	25.37	O
ATOM	1707	CB	VAL	A	225	44.192	73.130	27.012	1.00	24.79	C
ATOM	1708	CG1	VAL	A	225	42.772	72.695	26.673	1.00	24.80	C
ATOM	1709	CG2	VAL	A	225	44.757	72.306	28.180	1.00	24.68	C
ATOM	1710	N	ILE	A	226	44.120	72.963	23.556	1.00	24.07	N
ATOM	1711	CA	ILE	A	226	43.521	73.533	22.360	1.00	24.19	C
ATOM	1712	C	ILE	A	226	42.078	73.084	22.222	1.00	24.57	C
ATOM	1713	O	ILE	A	226	41.793	71.886	22.380	1.00	24.14	O
ATOM	1714	CB	ILE	A	226	44.288	73.059	21.100	1.00	24.71	C
ATOM	1715	CG1	ILE	A	226	45.772	73.430	21.244	1.00	24.67	C
ATOM	1716	CG2	ILE	A	226	43.621	73.604	19.818	1.00	23.86	C
ATOM	1717	CD1	ILE	A	226	46.609	72.997	20.106	1.00	24.65	C
ATOM	1718	N	ALA	A	227	41.179	74.023	21.916	1.00	23.50	N
ATOM	1719	CA	ALA	A	227	39.770	73.702	21.732	1.00	24.19	C
ATOM	1720	C	ALA	A	227	39.433	73.731	20.256	1.00	24.82	C
ATOM	1721	O	ALA	A	227	39.768	74.695	19.542	1.00	25.28	O
ATOM	1722	CB	ALA	A	227	38.860	74.713	22.493	1.00	24.28	C
ATOM	1723	N	ARG	A	228	38.785	72.675	19.767	1.00	23.92	N
ATOM	1724	CA	ARG	A	228	38.375	72.657	18.369	1.00	23.71	C
ATOM	1725	C	ARG	A	228	36.848	72.607	18.306	1.00	24.19	C
ATOM	1726	O	ARG	A	228	36.201	71.880	19.061	1.00	23.85	O
ATOM	1727	CB	ARG	A	228	38.942	71.417	17.650	1.00	23.92	C
ATOM	1728	CG	ARG	A	228	38.088	70.952	16.449	1.00	23.97	C
ATOM	1729	CD	ARG	A	228	38.754	69.793	15.654	1.00	23.56	C
ATOM	1730	NE	ARG	A	228	37.758	69.003	14.917	1.00	24.32	N
ATOM	1731	CZ	ARG	A	228	38.077	68.063	14.021	1.00	26.04	C
ATOM	1732	NH1	ARG	A	228	39.371	67.796	13.769	1.00	24.76	N
ATOM	1733	NH2	ARG	A	228	37.121	67.408	13.350	1.00	24.68	N
ATOM	1734	N	THR	A	229	36.266	73.385	17.411	1.00	23.92	N
ATOM	1735	CA	THR	A	229	34.844	73.317	17.243	1.00	24.56	C
ATOM	1736	C	THR	A	229	34.569	72.751	15.854	1.00	24.36	C
ATOM	1737	O	THR	A	229	35.254	73.086	14.887	1.00	24.57	O
ATOM	1738	CB	THR	A	229	34.154	74.688	17.388	1.00	25.26	C
ATOM	1739	OG1	THR	A	229	32.731	74.494	17.293	1.00	24.97	O
ATOM	1740	CG2	THR	A	229	34.646	75.680	16.326	1.00	23.91	C
ATOM	1741	N	ASP	A	230	33.583	71.875	15.776	1.00	24.70	N
ATOM	1742	CA	ASP	A	230	33.176	71.238	14.516	1.00	25.20	C
ATOM	1743	C	ASP	A	230	31.855	71.819	14.030	1.00	25.88	C
ATOM	1744	O	ASP	A	230	31.143	71.206	13.220	1.00	25.00	O
ATOM	1745	CB	ASP	A	230	33.028	69.723	14.729	1.00	24.69	C
ATOM	1746	CG	ASP	A	230	34.364	69.003	14.622	1.00	25.52	C
ATOM	1747	OD1	ASP	A	230	35.111	68.883	15.637	1.00	24.97	O
ATOM	1748	OD2	ASP	A	230	34.685	68.596	13.481	1.00	25.23	O
ATOM	1749	N	ALA	A	231	31.529	73.018	14.513	1.00	25.88	N
ATOM	1750	CA	ALA	A	231	30.244	73.601	14.155	1.00	27.36	C
ATOM	1751	C	ALA	A	231	30.137	74.156	12.722	1.00	27.88	C
ATOM	1752	O	ALA	A	231	29.028	74.494	12.268	1.00	28.63	O
ATOM	1753	CB	ALA	A	231	29.835	74.698	15.212	1.00	25.80	C
ATOM	1754	N	GLU	A	232	31.250	74.273	12.004	1.00	28.81	N
ATOM	1755	CA	GLU	A	232	31.129	74.792	10.644	1.00	30.19	C
ATOM	1756	C	GLU	A	232	30.256	73.890	9.775	1.00	30.27	C
ATOM	1757	O	GLU	A	232	29.386	74.380	9.063	1.00	29.94	O
ATOM	1758	CB	GLU	A	232	32.484	74.966	9.949	1.00	31.35	C
ATOM	1759	CG	GLU	A	232	32.358	75.656	8.583	1.00	34.89	C
ATOM	1760	CD	GLU	A	232	33.581	75.425	7.728	1.00	37.58	C
ATOM	1761	OE1	GLU	A	232	33.806	74.285	7.268	1.00	38.16	O
ATOM	1762	OE2	GLU	A	232	34.342	76.387	7.543	1.00	39.31	O
ATOM	1763	N	ALA	A	233	30.475	72.582	9.849	1.00	29.71	N
ATOM	1764	CA	ALA	A	233	29.718	71.624	9.038	1.00	29.60	C
ATOM	1765	C	ALA	A	233	28.667	70.782	9.791	1.00	30.03	C
ATOM	1766	O	ALA	A	233	27.703	70.287	9.179	1.00	30.05	O
ATOM	1767	CB	ALA	A	233	30.706	70.689	8.290	1.00	28.92	C
ATOM	1768	N	ALA	A	234	28.812	70.620	11.100	1.00	28.75	N



ATOM	1769	CA	ALA	A	234	27.847	69.789	11.831	1.00	29.23	C
ATOM	1770	C	ALA	A	234	26.403	70.285	11.660	1.00	29.22	C
ATOM	1771	O	ALA	A	234	26.118	71.480	11.789	1.00	29.74	O
ATOM	1772	CB	ALA	A	234	28.206	69.723	13.334	1.00	27.17	C
ATOM	1773	N	THR	A	235	25.490	69.346	11.449	1.00	29.48	N
ATOM	1774	CA	THR	A	235	24.085	69.676	11.217	1.00	30.00	C
ATOM	1775	C	THR	A	235	23.204	69.196	12.359	1.00	29.25	C
ATOM	1776	O	THR	A	235	22.004	69.425	12.358	1.00	27.82	O
ATOM	1777	CB	THR	A	235	23.602	68.970	9.940	1.00	31.09	C
ATOM	1778	OG1	THR	A	235	23.769	67.555	10.128	1.00	33.53	O
ATOM	1779	CG2	THR	A	235	24.456	69.386	8.743	1.00	32.10	C
ATOM	1780	N	LEU	A	236	23.812	68.525	13.339	1.00	28.43	N
ATOM	1781	CA	LEU	A	236	23.052	67.991	14.447	1.00	27.35	C
ATOM	1782	C	LEU	A	236	23.735	68.309	15.769	1.00	27.09	C
ATOM	1783	O	LEU	A	236	24.922	68.619	15.795	1.00	25.69	O
ATOM	1784	CB	LEU	A	236	22.947	66.490	14.283	1.00	27.66	C
ATOM	1785	CG	LEU	A	236	22.163	65.964	13.064	1.00	29.12	C
ATOM	1786	CD1	LEU	A	236	22.464	64.437	12.878	1.00	28.48	C
ATOM	1787	CD2	LEU	A	236	20.653	66.221	13.279	1.00	28.43	C
ATOM	1788	N	ILE	A	237	22.960	68.251	16.850	1.00	26.78	N
ATOM	1789	CA	ILE	A	237	23.493	68.471	18.198	1.00	27.04	C
ATOM	1790	C	ILE	A	237	22.686	67.533	19.105	1.00	27.02	C
ATOM	1791	O	ILE	A	237	21.472	67.316	18.884	1.00	26.58	O
ATOM	1792	CB	ILE	A	237	23.400	69.985	18.613	1.00	26.35	C
ATOM	1793	CG1	ILE	A	237	24.123	70.220	19.943	1.00	26.21	C
ATOM	1794	CG2	ILE	A	237	21.958	70.437	18.614	1.00	25.82	C
ATOM	1795	CD1	ILE	A	237	24.218	71.715	20.370	1.00	25.32	C
ATOM	1796	N	THR	A	238	23.357	66.933	20.093	1.00	26.58	N
ATOM	1797	CA	THR	A	238	22.703	65.971	20.974	1.00	26.85	C
ATOM	1798	C	THR	A	238	21.558	66.525	21.792	1.00	27.49	C
ATOM	1799	O	THR	A	238	20.625	65.809	22.086	1.00	27.25	O
ATOM	1800	CB	THR	A	238	23.703	65.358	21.966	1.00	26.45	C
ATOM	1801	OG1	THR	A	238	24.322	66.415	22.715	1.00	25.53	O
ATOM	1802	CG2	THR	A	238	24.772	64.554	21.201	1.00	25.98	C
ATOM	1803	N	SER	A	239	21.625	67.807	22.139	1.00	27.90	N
ATOM	1804	CA	SER	A	239	20.604	68.413	22.993	1.00	28.45	C
ATOM	1805	C	SER	A	239	20.517	69.911	22.794	1.00	28.72	C
ATOM	1806	O	SER	A	239	21.513	70.537	22.445	1.00	27.37	O
ATOM	1807	CB	SER	A	239	20.966	68.187	24.464	1.00	28.20	C
ATOM	1808	OG	SER	A	239	19.973	68.754	25.323	1.00	29.36	O
ATOM	1809	N	ASP	A	240	19.333	70.480	23.044	1.00	28.95	N
ATOM	1810	CA	ASP	A	240	19.145	71.934	22.949	1.00	29.73	C
ATOM	1811	C	ASP	A	240	19.113	72.529	24.379	1.00	30.45	C
ATOM	1812	O	ASP	A	240	18.673	73.660	24.601	1.00	30.21	O
ATOM	1813	CB	ASP	A	240	17.840	72.259	22.203	1.00	29.78	C
ATOM	1814	CG	ASP	A	240	16.581	71.722	22.914	1.00	30.38	C
ATOM	1815	OD1	ASP	A	240	16.675	70.880	23.832	1.00	29.05	O
ATOM	1816	OD2	ASP	A	240	15.462	72.139	22.524	1.00	31.07	O
ATOM	1817	N	VAL	A	241	19.624	71.769	25.343	1.00	30.35	N
ATOM	1818	CA	VAL	A	241	19.600	72.199	26.740	1.00	30.48	C
ATOM	1819	C	VAL	A	241	20.411	73.463	27.108	1.00	30.96	C
ATOM	1820	O	VAL	A	241	20.073	74.167	28.082	1.00	30.65	O
ATOM	1821	CB	VAL	A	241	20.035	71.023	27.659	1.00	30.92	C
ATOM	1822	CG1	VAL	A	241	21.523	70.832	27.576	1.00	29.67	C
ATOM	1823	CG2	VAL	A	241	19.533	71.259	29.090	1.00	29.70	C
ATOM	1824	N	ASP	A	242	21.471	73.747	26.361	1.00	30.20	N
ATOM	1825	CA	ASP	A	242	22.311	74.919	26.646	1.00	30.47	C
ATOM	1826	C	ASP	A	242	21.740	76.127	25.886	1.00	30.87	C
ATOM	1827	O	ASP	A	242	21.702	76.116	24.657	1.00	29.40	O
ATOM	1828	CB	ASP	A	242	23.744	74.663	26.166	1.00	29.62	C
ATOM	1829	CG	ASP	A	242	24.756	75.656	26.738	1.00	30.25	C
ATOM	1830	OD1	ASP	A	242	24.481	76.877	26.708	1.00	29.94	O
ATOM	1831	OD2	ASP	A	242	25.841	75.217	27.218	1.00	28.83	O
ATOM	1832	N	GLU	A	243	21.308	77.161	26.608	1.00	31.78	N
ATOM	1833	CA	GLU	A	243	20.747	78.341	25.958	1.00	33.28	C
ATOM	1834	C	GLU	A	243	21.710	79.004	24.950	1.00	32.97	C
ATOM	1835	O	GLU	A	243	21.269	79.677	24.032	1.00	32.62	O
ATOM	1836	CB	GLU	A	243	20.227	79.328	27.030	1.00	36.25	C
ATOM	1837	CG	GLU	A	243	19.054	78.651	27.835	1.00	41.15	C
ATOM	1838	CD	GLU	A	243	18.204	79.598	28.713	1.00	44.26	C
ATOM	1839	OE1	GLU	A	243	18.803	80.469	29.409	1.00	46.34	O
ATOM	1840	OE2	GLU	A	243	16.949	79.451	28.719	1.00	45.19	O
ATOM	1841	N	ARG	A	244	23.019	78.809	25.108	1.00	32.05	N
ATOM	1842	CA	ARG	A	244	23.962	79.366	24.139	1.00	31.31	C
ATOM	1843	C	ARG	A	244	23.850	78.627	22.799	1.00	30.57	C
ATOM	1844	O	ARG	A	244	24.257	79.143	21.769	1.00	30.18	O
ATOM	1845	CB	ARG	A	244	25.408	79.269	24.632	1.00	30.94	C
ATOM	1846	CG	ARG	A	244	25.745	80.163	25.847	1.00	30.21	C
ATOM	1847	CD	ARG	A	244	27.123	79.776	26.444	1.00	29.49	C
ATOM	1848	NE	ARG	A	244	27.018	78.475	27.106	1.00	29.08	N



ATOM	1849	CZ	ARG	A	244	27.823	78.035	28.071	1.00	28.83	C
ATOM	1850	NH1	ARG	A	244	28.832	78.788	28.500	1.00	28.42	N
ATOM	1851	NH2	ARG	A	244	27.578	76.850	28.651	1.00	27.69	N
ATOM	1852	N	ASP	A	245	23.305	77.420	22.791	1.00	30.19	N
ATOM	1853	CA	ASP	A	245	23.173	76.702	21.512	1.00	30.19	C
ATOM	1854	C	ASP	A	245	21.802	76.932	20.865	1.00	30.71	C
ATOM	1855	O	ASP	A	245	21.626	76.707	19.670	1.00	29.40	O
ATOM	1856	CB	ASP	A	245	23.387	75.193	21.706	1.00	28.61	C
ATOM	1857	CG	ASP	A	245	24.749	74.875	22.314	1.00	27.80	C
ATOM	1858	OD1	ASP	A	245	25.721	75.559	21.953	1.00	27.30	O
ATOM	1859	OD2	ASP	A	245	24.838	73.939	23.148	1.00	28.43	O
ATOM	1860	N	GLN	A	246	20.841	77.372	21.670	1.00	31.40	N
ATOM	1861	CA	GLN	A	246	19.480	77.607	21.186	1.00	33.05	C
ATOM	1862	C	GLN	A	246	19.307	78.537	19.980	1.00	33.25	C
ATOM	1863	O	GLN	A	246	18.426	78.304	19.161	1.00	33.67	O
ATOM	1864	CB	GLN	A	246	18.570	78.020	22.358	1.00	32.98	C
ATOM	1865	CG	GLN	A	246	18.249	76.792	23.268	1.00	33.98	C
ATOM	1866	CD	GLN	A	246	17.658	77.156	24.644	1.00	35.19	C
ATOM	1867	OE1	GLN	A	246	17.213	78.286	24.859	1.00	36.27	O
ATOM	1868	NE2	GLN	A	246	17.652	76.195	25.574	1.00	33.83	N
ATOM	1869	N	PRO	A	247	20.152	79.565	19.826	1.00	33.10	N
ATOM	1870	CA	PRO	A	247	19.955	80.423	18.655	1.00	33.64	C
ATOM	1871	C	PRO	A	247	20.122	79.651	17.337	1.00	34.04	C
ATOM	1872	O	PRO	A	247	19.688	80.114	16.279	1.00	33.90	O
ATOM	1873	CB	PRO	A	247	21.043	81.504	18.815	1.00	33.46	C
ATOM	1874	CG	PRO	A	247	21.205	81.607	20.317	1.00	33.31	C
ATOM	1875	CD	PRO	A	247	21.145	80.140	20.754	1.00	33.91	C
ATOM	1876	N	PHE	A	248	20.744	78.475	17.392	1.00	33.17	N
ATOM	1877	CA	PHE	A	248	20.968	77.712	16.170	1.00	32.82	C
ATOM	1878	C	PHE	A	248	20.073	76.479	15.973	1.00	32.76	C
ATOM	1879	O	PHE	A	248	20.083	75.857	14.904	1.00	32.04	O
ATOM	1880	CB	PHE	A	248	22.447	77.333	16.104	1.00	32.59	C
ATOM	1881	CG	PHE	A	248	23.366	78.513	16.239	1.00	32.14	C
ATOM	1882	CD1	PHE	A	248	23.481	79.441	15.214	1.00	32.38	C
ATOM	1883	CD2	PHE	A	248	24.096	78.716	17.410	1.00	33.02	C
ATOM	1884	CE1	PHE	A	248	24.317	80.559	15.349	1.00	32.23	C
ATOM	1885	CE2	PHE	A	248	24.935	79.831	17.556	1.00	32.03	C
ATOM	1886	CZ	PHE	A	248	25.047	80.751	16.524	1.00	32.27	C
ATOM	1887	N	ILE	A	249	19.307	76.148	17.004	1.00	32.63	N
ATOM	1888	CA	ILE	A	249	18.394	75.009	16.997	1.00	33.56	C
ATOM	1889	C	ILE	A	249	17.276	75.348	16.026	1.00	34.60	C
ATOM	1890	O	ILE	A	249	16.734	76.453	16.084	1.00	35.27	O
ATOM	1891	CB	ILE	A	249	17.819	74.821	18.408	1.00	33.44	C
ATOM	1892	CG1	ILE	A	249	18.934	74.348	19.357	1.00	33.15	C
ATOM	1893	CG2	ILE	A	249	16.614	73.859	18.383	1.00	33.08	C
ATOM	1894	CD1	ILE	A	249	19.415	72.928	19.079	1.00	33.05	C
ATOM	1895	N	THR	A	250	16.923	74.420	15.143	1.00	35.17	N
ATOM	1896	CA	THR	A	250	15.878	74.671	14.141	1.00	35.59	C
ATOM	1897	C	THR	A	250	14.513	74.325	14.672	1.00	35.96	C
ATOM	1898	O	THR	A	250	13.513	74.781	14.138	1.00	35.84	O
ATOM	1899	CB	THR	A	250	16.055	73.798	12.871	1.00	34.62	C
ATOM	1900	OG1	THR	A	250	15.699	72.444	13.180	1.00	33.39	O
ATOM	1901	CG2	THR	A	250	17.491	73.820	12.397	1.00	34.62	C
ATOM	1902	N	GLY	A	251	14.471	73.475	15.692	1.00	36.31	N
ATOM	1903	CA	GLY	A	251	13.191	73.068	16.239	1.00	36.47	C
ATOM	1904	C	GLY	A	251	12.832	71.660	15.796	1.00	37.05	C
ATOM	1905	O	GLY	A	251	11.885	71.067	16.316	1.00	36.77	O
ATOM	1906	N	GLU	A	252	13.583	71.115	14.837	1.00	36.08	N
ATOM	1907	CA	GLU	A	252	13.330	69.760	14.364	1.00	36.67	C
ATOM	1908	C	GLU	A	252	14.191	68.775	15.159	1.00	35.94	C
ATOM	1909	O	GLU	A	252	15.356	69.073	15.461	1.00	35.17	O
ATOM	1910	CB	GLU	A	252	13.704	69.634	12.872	1.00	37.50	C
ATOM	1911	CG	GLU	A	252	12.856	70.501	11.934	1.00	39.44	C
ATOM	1912	CD	GLU	A	252	13.598	70.864	10.640	1.00	40.75	C
ATOM	1913	OE1	GLU	A	252	14.713	71.427	10.741	1.00	40.87	O
ATOM	1914	OE2	GLU	A	252	13.077	70.597	9.533	1.00	40.36	O
ATOM	1915	N	ARG	A	253	13.628	67.618	15.501	1.00	34.78	N
ATOM	1916	CA	ARG	A	253	14.415	66.587	16.197	1.00	34.37	C
ATOM	1917	C	ARG	A	253	14.275	65.309	15.355	1.00	33.36	C
ATOM	1918	O	ARG	A	253	13.171	64.960	14.945	1.00	32.17	O
ATOM	1919	CB	ARG	A	253	13.924	66.356	17.630	1.00	33.59	C
ATOM	1920	CG	ARG	A	253	15.002	65.702	18.486	1.00	34.79	C
ATOM	1921	CD	ARG	A	253	14.603	65.539	19.954	1.00	33.85	C
ATOM	1922	NE	ARG	A	253	13.507	64.589	20.120	1.00	33.37	N
ATOM	1923	CZ	ARG	A	253	13.077	64.145	21.300	1.00	34.01	C
ATOM	1924	NH1	ARG	A	253	13.678	64.560	22.433	1.00	31.61	N
ATOM	1925	NH2	ARG	A	253	12.018	63.322	21.355	1.00	32.36	N
ATOM	1926	N	THR	A	254	15.398	64.636	15.103	1.00	32.45	N
ATOM	1927	CA	THR	A	254	15.433	63.440	14.258	1.00	31.90	C
ATOM	1928	C	THR	A	254	14.900	62.181	14.905	1.00	32.24	C



ATOM	1929	O	THR	A	254	14.653	62.141	16.103	1.00	32.21	O
ATOM	1930	CB	THR	A	254	16.886	63.127	13.768	1.00	30.94	C
ATOM	1931	OG1	THR	A	254	17.650	62.558	14.846	1.00	29.56	O
ATOM	1932	CG2	THR	A	254	17.565	64.405	13.253	1.00	29.91	C
ATOM	1933	N	ARG	A	255	14.758	61.135	14.099	1.00	32.58	N
ATOM	1934	CA	ARG	A	255	14.266	59.848	14.578	1.00	33.48	C
ATOM	1935	C	ARG	A	255	15.205	59.260	15.652	1.00	33.37	C
ATOM	1936	O	ARG	A	255	14.784	58.441	16.473	1.00	33.21	O
ATOM	1937	CB	ARG	A	255	14.082	58.888	13.368	1.00	33.63	C
ATOM	1938	CG	ARG	A	255	13.584	57.483	13.676	1.00	34.65	C
ATOM	1939	CD	ARG	A	255	12.211	57.428	14.390	1.00	36.69	C
ATOM	1940	NE	ARG	A	255	11.177	58.252	13.763	1.00	37.01	N
ATOM	1941	CZ	ARG	A	255	9.924	58.369	14.218	1.00	38.41	C
ATOM	1942	NH1	ARG	A	255	9.535	57.703	15.299	1.00	37.20	N
ATOM	1943	NH2	ARG	A	255	9.065	59.190	13.610	1.00	37.85	N
ATOM	1944	N	GLU	A	256	16.465	59.694	15.665	1.00	33.19	N
ATOM	1945	CA	GLU	A	256	17.406	59.218	16.679	1.00	33.20	C
ATOM	1946	C	GLU	A	256	17.466	60.158	17.889	1.00	32.90	C
ATOM	1947	O	GLU	A	256	18.230	59.928	18.834	1.00	32.76	O
ATOM	1948	CB	GLU	A	256	18.810	59.051	16.080	1.00	33.56	C
ATOM	1949	CG	GLU	A	256	18.903	57.904	15.081	1.00	34.49	C
ATOM	1950	CD	GLU	A	256	18.170	58.213	13.774	1.00	35.55	C
ATOM	1951	OE1	GLU	A	256	18.415	59.308	13.219	1.00	35.09	O
ATOM	1952	OE2	GLU	A	256	17.365	57.367	13.310	1.00	36.21	O
ATOM	1953	N	GLY	A	257	16.657	61.209	17.860	1.00	32.25	N
ATOM	1954	CA	GLY	A	257	16.631	62.162	18.968	1.00	32.06	C
ATOM	1955	C	GLY	A	257	17.644	63.296	18.933	1.00	32.26	C
ATOM	1956	O	GLY	A	257	17.833	63.993	19.948	1.00	33.26	O
ATOM	1957	N	PHE	A	258	18.320	63.504	17.806	1.00	31.28	N
ATOM	1958	CA	PHE	A	258	19.273	64.605	17.734	1.00	31.56	C
ATOM	1959	C	PHE	A	258	18.540	65.841	17.213	1.00	31.31	C
ATOM	1960	O	PHE	A	258	17.538	65.711	16.521	1.00	30.95	O
ATOM	1961	CB	PHE	A	258	20.469	64.264	16.832	1.00	32.04	C
ATOM	1962	CG	PHE	A	258	21.255	63.065	17.300	1.00	34.18	C
ATOM	1963	CD1	PHE	A	258	21.652	62.954	18.630	1.00	34.31	C
ATOM	1964	CD2	PHE	A	258	21.589	62.036	16.404	1.00	34.88	C
ATOM	1965	CE1	PHE	A	258	22.377	61.832	19.079	1.00	35.75	C
ATOM	1966	CE2	PHE	A	258	22.315	60.900	16.835	1.00	35.37	C
ATOM	1967	CZ	PHE	A	258	22.709	60.802	18.171	1.00	35.78	C
ATOM	1968	N	TYR	A	259	19.036	67.024	17.571	1.00	30.78	N
ATOM	1969	CA	TYR	A	259	18.415	68.278	17.177	1.00	30.98	C
ATOM	1970	C	TYR	A	259	19.105	68.851	15.960	1.00	31.64	C
ATOM	1971	O	TYR	A	259	20.339	68.908	15.903	1.00	30.98	O
ATOM	1972	CB	TYR	A	259	18.485	69.297	18.311	1.00	29.61	C
ATOM	1973	CG	TYR	A	259	17.722	68.873	19.554	1.00	29.28	C
ATOM	1974	CD1	TYR	A	259	18.225	67.883	20.415	1.00	29.21	C
ATOM	1975	CD2	TYR	A	259	16.460	69.418	19.837	1.00	28.72	C
ATOM	1976	CE1	TYR	A	259	17.469	67.436	21.539	1.00	28.49	C
ATOM	1977	CE2	TYR	A	259	15.709	68.992	20.951	1.00	27.95	C
ATOM	1978	CZ	TYR	A	259	16.217	68.005	21.789	1.00	28.77	C
ATOM	1979	OH	TYR	A	259	15.470	67.579	22.870	1.00	27.58	O
ATOM	1980	N	ARG	A	260	18.296	69.259	14.990	1.00	31.67	N
ATOM	1981	CA	ARG	A	260	18.830	69.875	13.800	1.00	32.89	C
ATOM	1982	C	ARG	A	260	19.306	71.264	14.217	1.00	31.65	C
ATOM	1983	O	ARG	A	260	18.637	71.957	14.995	1.00	30.11	O
ATOM	1984	CB	ARG	A	260	17.758	69.923	12.710	1.00	35.28	C
ATOM	1985	CG	ARG	A	260	18.264	69.239	11.461	1.00	40.31	C
ATOM	1986	CD	ARG	A	260	17.376	68.163	10.896	1.00	42.47	C
ATOM	1987	NE	ARG	A	260	18.238	67.115	10.330	1.00	45.65	N
ATOM	1988	CZ	ARG	A	260	17.803	65.934	9.906	1.00	46.14	C
ATOM	1989	NH1	ARG	A	260	16.498	65.628	9.966	1.00	45.66	N
ATOM	1990	NH2	ARG	A	260	18.680	65.044	9.467	1.00	46.33	N
ATOM	1991	N	THR	A	261	20.481	71.647	13.729	1.00	30.73	N
ATOM	1992	CA	THR	A	261	21.061	72.921	14.112	1.00	31.30	C
ATOM	1993	C	THR	A	261	21.739	73.630	12.936	1.00	32.23	C
ATOM	1994	O	THR	A	261	22.358	72.982	12.082	1.00	30.93	O
ATOM	1995	CB	THR	A	261	22.053	72.708	15.273	1.00	30.71	C
ATOM	1996	OG1	THR	A	261	22.573	73.964	15.704	1.00	29.82	O
ATOM	1997	CG2	THR	A	261	23.212	71.766	14.838	1.00	30.08	C
ATOM	1998	N	LYS	A	262	21.600	74.956	12.908	1.00	33.00	N
ATOM	1999	CA	LYS	A	262	22.151	75.808	11.851	1.00	35.10	C
ATOM	2000	C	LYS	A	262	23.666	75.829	11.955	1.00	34.83	C
ATOM	2001	O	LYS	A	262	24.200	76.205	12.997	1.00	34.82	O
ATOM	2002	CB	LYS	A	262	21.621	77.243	12.000	1.00	36.87	C
ATOM	2003	CG	LYS	A	262	20.846	77.722	10.829	1.00	41.43	C
ATOM	2004	CD	LYS	A	262	20.775	79.268	10.740	1.00	43.77	C
ATOM	2005	CE	LYS	A	262	20.441	79.963	12.065	1.00	45.84	C
ATOM	2006	NZ	LYS	A	262	19.250	79.394	12.774	1.00	47.74	N
ATOM	2007	N	ASN	A	263	24.353	75.454	10.879	1.00	34.66	N
ATOM	2008	CA	ASN	A	263	25.822	75.386	10.882	1.00	34.52	C



ATOM	2009	C	ASN	A	263	26.473	76.605	10.235	1.00	34.50	C
ATOM	2010	O	ASN	A	263	25.802	77.534	9.863	1.00	34.78	O
ATOM	2011	CB	ASN	A	263	26.286	74.092	10.190	1.00	35.05	C
ATOM	2012	CG	ASN	A	263	25.962	74.067	8.696	1.00	36.43	C
ATOM	2013	OD1	ASN	A	263	25.570	75.077	8.121	1.00	36.29	O
ATOM	2014	ND2	ASN	A	263	26.155	72.921	8.064	1.00	37.13	N
ATOM	2015	N	GLY	A	264	27.787	76.614	10.121	1.00	34.17	N
ATOM	2016	CA	GLY	A	264	28.448	77.742	9.500	1.00	34.21	C
ATOM	2017	C	GLY	A	264	29.378	78.481	10.442	1.00	33.65	C
ATOM	2018	O	GLY	A	264	29.611	78.079	11.587	1.00	33.14	O
ATOM	2019	N	ILE	A	265	29.907	79.594	9.964	1.00	33.13	N
ATOM	2020	CA	ILE	A	265	30.848	80.337	10.763	1.00	33.25	C
ATOM	2021	C	ILE	A	265	30.244	81.005	12.019	1.00	33.08	C
ATOM	2022	O	ILE	A	265	30.945	81.213	13.010	1.00	31.69	O
ATOM	2023	CB	ILE	A	265	31.578	81.372	9.875	1.00	33.87	C
ATOM	2024	CG1	ILE	A	265	32.751	81.982	10.643	1.00	33.72	C
ATOM	2025	CG2	ILE	A	265	30.571	82.426	9.388	1.00	33.78	C
ATOM	2026	CD1	ILE	A	265	33.648	82.797	9.771	1.00	34.46	C
ATOM	2027	N	GLU	A	266	28.949	81.302	11.989	1.00	32.69	N
ATOM	2028	CA	GLU	A	266	28.296	81.942	13.128	1.00	33.93	C
ATOM	2029	C	GLU	A	266	28.386	81.097	14.423	1.00	32.73	C
ATOM	2030	O	GLU	A	266	28.850	81.586	15.451	1.00	32.71	O
ATOM	2031	CB	GLU	A	266	26.829	82.224	12.790	1.00	36.97	C
ATOM	2032	CG	GLU	A	266	26.416	83.637	13.077	1.00	41.77	C
ATOM	2033	CD	GLU	A	266	24.892	83.826	13.061	1.00	44.65	C
ATOM	2034	OE1	GLU	A	266	24.307	83.660	11.960	1.00	45.64	O
ATOM	2035	OE2	GLU	A	266	24.297	84.132	14.146	1.00	45.79	O
ATOM	2036	N	PRO	A	267	27.905	79.834	14.393	1.00	31.24	N
ATOM	2037	CA	PRO	A	267	28.012	79.038	15.622	1.00	30.66	C
ATOM	2038	C	PRO	A	267	29.495	78.789	16.006	1.00	29.81	C
ATOM	2039	O	PRO	A	267	29.831	78.679	17.201	1.00	29.89	O
ATOM	2040	CB	PRO	A	267	27.226	77.754	15.294	1.00	30.32	C
ATOM	2041	CG	PRO	A	267	27.281	77.684	13.709	1.00	30.92	C
ATOM	2042	CD	PRO	A	267	27.103	79.148	13.359	1.00	30.86	C
ATOM	2043	N	CYS	A	268	30.382	78.714	15.012	1.00	28.83	N
ATOM	2044	CA	CYS	A	268	31.811	78.548	15.296	1.00	28.17	C
ATOM	2045	C	CYS	A	268	32.337	79.727	16.113	1.00	28.16	C
ATOM	2046	O	CYS	A	268	33.092	79.553	17.063	1.00	27.06	O
ATOM	2047	CB	CYS	A	268	32.629	78.447	14.006	1.00	28.14	C
ATOM	2048	SG	CYS	A	268	32.386	76.879	13.109	1.00	28.45	S
ATOM	2049	N	ILE	A	269	31.947	80.935	15.721	1.00	28.27	N
ATOM	2050	CA	ILE	A	269	32.385	82.137	16.416	1.00	28.50	C
ATOM	2051	C	ILE	A	269	31.825	82.157	17.831	1.00	28.33	C
ATOM	2052	O	ILE	A	269	32.555	82.438	18.785	1.00	28.49	O
ATOM	2053	CB	ILE	A	269	31.955	83.413	15.606	1.00	29.23	C
ATOM	2054	CG1	ILE	A	269	32.862	83.563	14.377	1.00	29.38	C
ATOM	2055	CG2	ILE	A	269	32.012	84.657	16.490	1.00	28.91	C
ATOM	2056	CD1	ILE	A	269	32.360	84.600	13.318	1.00	30.32	C
ATOM	2057	N	ALA	A	270	30.544	81.838	17.993	1.00	28.24	N
ATOM	2058	CA	ALA	A	270	29.954	81.831	19.341	1.00	28.61	C
ATOM	2059	C	ALA	A	270	30.642	80.762	20.219	1.00	28.73	C
ATOM	2060	O	ALA	A	270	30.989	81.015	21.388	1.00	28.20	O
ATOM	2061	CB	ALA	A	270	28.439	81.547	19.269	1.00	28.74	C
ATOM	2062	N	ARG	A	271	30.846	79.571	19.667	1.00	28.34	N
ATOM	2063	CA	ARG	A	271	31.486	78.509	20.458	1.00	28.65	C
ATOM	2064	C	ARG	A	271	32.907	78.914	20.837	1.00	28.18	C
ATOM	2065	O	ARG	A	271	33.328	78.719	21.971	1.00	27.90	O
ATOM	2066	CB	ARG	A	271	31.514	77.196	19.680	1.00	28.64	C
ATOM	2067	CG	ARG	A	271	30.119	76.663	19.365	1.00	29.97	C
ATOM	2068	CD	ARG	A	271	29.975	75.320	19.936	1.00	30.60	C
ATOM	2069	NE	ARG	A	271	28.645	74.746	19.776	1.00	30.69	N
ATOM	2070	CZ	ARG	A	271	28.302	73.586	20.325	1.00	30.13	C
ATOM	2071	NH1	ARG	A	271	29.205	72.913	21.031	1.00	30.79	N
ATOM	2072	NH2	ARG	A	271	27.071	73.128	20.227	1.00	29.53	N
ATOM	2073	N	ALA	A	272	33.630	79.473	19.875	1.00	27.88	N
ATOM	2074	CA	ALA	A	272	35.000	79.910	20.115	1.00	28.08	C
ATOM	2075	C	ALA	A	272	35.059	80.890	21.289	1.00	28.92	C
ATOM	2076	O	ALA	A	272	35.974	80.804	22.139	1.00	28.28	O
ATOM	2077	CB	ALA	A	272	35.537	80.566	18.880	1.00	28.07	C
ATOM	2078	N	LYS	A	273	34.098	81.825	21.338	1.00	28.90	N
ATOM	2079	CA	LYS	A	273	34.075	82.813	22.423	1.00	29.91	C
ATOM	2080	C	LYS	A	273	33.744	82.143	23.745	1.00	29.42	C
ATOM	2081	O	LYS	A	273	34.302	82.498	24.773	1.00	30.26	O
ATOM	2082	CB	LYS	A	273	33.034	83.908	22.155	1.00	31.58	C
ATOM	2083	CG	LYS	A	273	33.345	84.818	20.988	1.00	33.20	C
ATOM	2084	CD	LYS	A	273	32.100	85.674	20.683	1.00	34.65	C
ATOM	2085	CE	LYS	A	273	32.405	86.684	19.611	1.00	35.29	C
ATOM	2086	NZ	LYS	A	273	31.223	87.537	19.315	1.00	36.58	N
ATOM	2087	N	ALA	A	274	32.800	81.210	23.743	1.00	28.80	N
ATOM	2088	CA	ALA	A	274	32.485	80.489	24.977	1.00	28.35	C



ATOM	2089	C	ALA	A	274	33.675	79.631	25.435	1.00	27.68	C
ATOM	2090	O	ALA	A	274	33.860	79.410	26.637	1.00	27.27	O
ATOM	2091	CB	ALA	A	274	31.256	79.590	24.774	1.00	27.77	C
ATOM	2092	N	TYR	A	275	34.471	79.130	24.487	1.00	27.04	N
ATOM	2093	CA	TYR	A	275	35.614	78.274	24.839	1.00	26.41	C
ATOM	2094	C	TYR	A	275	36.901	79.023	25.225	1.00	26.51	C
ATOM	2095	O	TYR	A	275	37.759	78.455	25.883	1.00	25.95	O
ATOM	2096	CB	TYR	A	275	35.983	77.332	23.669	1.00	25.13	C
ATOM	2097	CG	TYR	A	275	34.882	76.371	23.199	1.00	23.87	C
ATOM	2098	CD1	TYR	A	275	33.789	76.057	24.005	1.00	24.52	C
ATOM	2099	CD2	TYR	A	275	34.965	75.768	21.949	1.00	24.05	C
ATOM	2100	CE1	TYR	A	275	32.794	75.150	23.569	1.00	24.27	C
ATOM	2101	CE2	TYR	A	275	33.984	74.861	21.505	1.00	23.83	C
ATOM	2102	CZ	TYR	A	275	32.912	74.567	22.311	1.00	23.58	C
ATOM	2103	OH	TYR	A	275	31.939	73.733	21.817	1.00	24.04	O
ATOM	2104	N	ALA	A	276	37.024	80.283	24.796	1.00	26.37	N
ATOM	2105	CA	ALA	A	276	38.232	81.072	25.017	1.00	26.64	C
ATOM	2106	C	ALA	A	276	38.818	81.055	26.419	1.00	26.84	C
ATOM	2107	O	ALA	A	276	40.029	80.925	26.581	1.00	26.92	O
ATOM	2108	CB	ALA	A	276	38.007	82.523	24.559	1.00	27.52	C
ATOM	2109	N	PRO	A	277	37.986	81.211	27.444	1.00	27.04	N
ATOM	2110	CA	PRO	A	277	38.496	81.209	28.828	1.00	28.35	C
ATOM	2111	C	PRO	A	277	39.048	79.840	29.259	1.00	28.78	C
ATOM	2112	O	PRO	A	277	39.697	79.734	30.304	1.00	28.24	O
ATOM	2113	CB	PRO	A	277	37.261	81.555	29.681	1.00	28.04	C
ATOM	2114	CG	PRO	A	277	36.307	82.232	28.711	1.00	28.58	C
ATOM	2115	CD	PRO	A	277	36.539	81.469	27.400	1.00	27.85	C
ATOM	2116	N	PHE	A	278	38.775	78.812	28.451	1.00	28.56	N
ATOM	2117	CA	PHE	A	278	39.167	77.429	28.780	1.00	28.49	C
ATOM	2118	C	PHE	A	278	40.167	76.802	27.821	1.00	29.10	C
ATOM	2119	O	PHE	A	278	40.491	75.612	27.950	1.00	28.74	O
ATOM	2120	CB	PHE	A	278	37.913	76.554	28.814	1.00	28.18	C
ATOM	2121	CG	PHE	A	278	36.862	77.053	29.785	1.00	28.59	C
ATOM	2122	CD1	PHE	A	278	37.017	76.861	31.151	1.00	27.54	C
ATOM	2123	CD2	PHE	A	278	35.781	77.804	29.326	1.00	27.32	C
ATOM	2124	CE1	PHE	A	278	36.099	77.421	32.062	1.00	29.54	C
ATOM	2125	CE2	PHE	A	278	34.859	78.370	30.215	1.00	28.27	C
ATOM	2126	CZ	PHE	A	278	35.006	78.189	31.587	1.00	27.97	C
ATOM	2127	N	ALA	A	279	40.683	77.601	26.892	1.00	28.70	N
ATOM	2128	CA	ALA	A	279	41.609	77.083	25.903	1.00	28.65	C
ATOM	2129	C	ALA	A	279	42.781	78.002	25.612	1.00	28.97	C
ATOM	2130	O	ALA	A	279	42.613	79.223	25.484	1.00	29.24	O
ATOM	2131	CB	ALA	A	279	40.845	76.811	24.585	1.00	28.09	C
ATOM	2132	N	ASP	A	280	43.969	77.427	25.493	1.00	28.48	N
ATOM	2133	CA	ASP	A	280	45.126	78.234	25.160	1.00	28.21	C
ATOM	2134	C	ASP	A	280	45.094	78.603	23.685	1.00	28.63	C
ATOM	2135	O	ASP	A	280	45.670	79.617	23.294	1.00	28.78	O
ATOM	2136	CB	ASP	A	280	46.419	77.502	25.480	1.00	27.07	C
ATOM	2137	CG	ASP	A	280	46.551	77.222	26.937	1.00	28.31	C
ATOM	2138	OD1	ASP	A	280	46.328	78.178	27.753	1.00	27.05	O
ATOM	2139	OD2	ASP	A	280	46.867	76.053	27.271	1.00	26.70	O
ATOM	2140	N	LEU	A	281	44.477	77.761	22.854	1.00	27.71	N
ATOM	2141	CA	LEU	A	281	44.344	78.060	21.435	1.00	27.93	C
ATOM	2142	C	LEU	A	281	43.002	77.530	20.977	1.00	28.05	C
ATOM	2143	O	LEU	A	281	42.493	76.552	21.535	1.00	27.08	O
ATOM	2144	CB	LEU	A	281	45.448	77.425	20.577	1.00	28.19	C
ATOM	2145	CG	LEU	A	281	46.870	77.962	20.787	1.00	29.06	C
ATOM	2146	CD1	LEU	A	281	47.575	77.084	21.772	1.00	29.01	C
ATOM	2147	CD2	LEU	A	281	47.629	78.001	19.500	1.00	29.91	C
ATOM	2148	N	ILE	A	282	42.421	78.172	19.970	1.00	28.23	N
ATOM	2149	CA	ILE	A	282	41.117	77.731	19.458	1.00	28.19	C
ATOM	2150	C	ILE	A	282	41.247	77.440	17.975	1.00	28.55	C
ATOM	2151	O	ILE	A	282	41.924	78.169	17.250	1.00	28.64	O
ATOM	2152	CB	ILE	A	282	40.047	78.802	19.660	1.00	28.76	C
ATOM	2153	CG1	ILE	A	282	40.001	79.205	21.130	1.00	29.19	C
ATOM	2154	CG2	ILE	A	282	38.675	78.252	19.217	1.00	28.17	C
ATOM	2155	CD1	ILE	A	282	39.068	80.350	21.391	1.00	30.88	C
ATOM	2156	N	TRP	A	283	40.576	76.383	17.534	1.00	28.45	N
ATOM	2157	CA	TRP	A	283	40.598	75.937	16.156	1.00	28.09	C
ATOM	2158	C	TRP	A	283	39.194	75.659	15.625	1.00	28.41	C
ATOM	2159	O	TRP	A	283	38.425	74.910	16.225	1.00	27.98	O
ATOM	2160	CB	TRP	A	283	41.472	74.680	16.104	1.00	28.05	C
ATOM	2161	CG	TRP	A	283	41.384	73.835	14.906	1.00	28.24	C
ATOM	2162	CD1	TRP	A	283	41.048	74.220	13.628	1.00	28.01	C
ATOM	2163	CD2	TRP	A	283	41.714	72.444	14.839	1.00	27.14	C
ATOM	2164	NE1	TRP	A	283	41.155	73.138	12.775	1.00	28.07	N
ATOM	2165	CE2	TRP	A	283	41.555	72.040	13.495	1.00	28.29	C
ATOM	2166	CE3	TRP	A	283	42.135	71.501	15.791	1.00	27.75	C
ATOM	2167	CZ2	TRP	A	283	41.799	70.730	13.073	1.00	27.31	C
ATOM	2168	CZ3	TRP	A	283	42.383	70.195	15.373	1.00	27.42	C



ATOM	2169	CH2	TRP	A	283	42.211	69.824	14.035	1.00	27.36	C
ATOM	2170	N	MET	A	284	38.869	76.304	14.509	1.00	28.22	N
ATOM	2171	CA	MET	A	284	37.606	76.127	13.829	1.00	28.82	C
ATOM	2172	C	MET	A	284	37.894	75.108	12.721	1.00	29.07	C
ATOM	2173	O	MET	A	284	38.644	75.392	11.768	1.00	27.82	O
ATOM	2174	CB	MET	A	284	37.171	77.447	13.197	1.00	29.79	C
ATOM	2175	CG	MET	A	284	36.026	77.303	12.234	1.00	32.13	C
ATOM	2176	SD	MET	A	284	35.590	78.958	11.487	1.00	31.42	S
ATOM	2177	CE	MET	A	284	37.106	79.228	10.420	1.00	34.25	C
ATOM	2178	N	GLU	A	285	37.340	73.908	12.849	1.00	29.32	N
ATOM	2179	CA	GLU	A	285	37.584	72.881	11.829	1.00	30.63	C
ATOM	2180	C	GLU	A	285	36.939	73.413	10.545	1.00	31.73	C
ATOM	2181	O	GLU	A	285	35.812	73.906	10.579	1.00	30.27	O
ATOM	2182	CB	GLU	A	285	36.955	71.554	12.296	1.00	31.26	C
ATOM	2183	CG	GLU	A	285	36.668	70.521	11.208	1.00	31.70	C
ATOM	2184	CD	GLU	A	285	37.909	69.816	10.711	1.00	32.66	C
ATOM	2185	OE1	GLU	A	285	39.042	70.152	11.155	1.00	33.70	O
ATOM	2186	OE2	GLU	A	285	37.748	68.920	9.857	1.00	33.29	O
ATOM	2187	N	THR	A	286	37.652	73.339	9.418	1.00	33.35	N
ATOM	2188	CA	THR	A	286	37.099	73.850	8.167	1.00	35.17	C
ATOM	2189	C	THR	A	286	37.473	72.978	6.978	1.00	36.06	C
ATOM	2190	O	THR	A	286	38.595	72.445	6.906	1.00	36.09	O
ATOM	2191	CB	THR	A	286	37.565	75.312	7.910	1.00	35.84	C
ATOM	2192	OG1	THR	A	286	36.739	75.897	6.892	1.00	37.90	O
ATOM	2193	CG2	THR	A	286	39.010	75.347	7.433	1.00	36.21	C
ATOM	2194	N	GLY	A	287	36.544	72.829	6.037	1.00	37.15	N
ATOM	2195	CA	GLY	A	287	36.842	71.981	4.889	1.00	38.34	C
ATOM	2196	C	GLY	A	287	37.570	72.706	3.768	1.00	38.62	C
ATOM	2197	O	GLY	A	287	38.368	72.118	3.022	1.00	39.65	O
ATOM	2198	N	THR	A	288	37.315	74.001	3.664	1.00	38.53	N
ATOM	2199	CA	THR	A	288	37.905	74.786	2.602	1.00	38.02	C
ATOM	2200	C	THR	A	288	38.852	75.880	3.020	1.00	37.31	C
ATOM	2201	O	THR	A	288	38.425	76.876	3.602	1.00	37.58	O
ATOM	2202	CB	THR	A	288	36.785	75.425	1.786	1.00	38.60	C
ATOM	2203	OG1	THR	A	288	35.864	74.398	1.381	1.00	39.40	O
ATOM	2204	CG2	THR	A	288	37.352	76.109	0.549	1.00	38.86	C
ATOM	2205	N	PRO	A	289	40.151	75.732	2.728	1.00	36.87	N
ATOM	2206	CA	PRO	A	289	41.057	76.820	3.127	1.00	36.47	C
ATOM	2207	C	PRO	A	289	40.585	78.092	2.436	1.00	36.26	C
ATOM	2208	O	PRO	A	289	40.349	78.118	1.218	1.00	36.39	O
ATOM	2209	CB	PRO	A	289	42.428	76.360	2.635	1.00	36.27	C
ATOM	2210	CG	PRO	A	289	42.137	75.396	1.587	1.00	37.69	C
ATOM	2211	CD	PRO	A	289	40.877	74.670	2.019	1.00	37.14	C
ATOM	2212	N	ASP	A	290	40.437	79.147	3.215	1.00	36.17	N
ATOM	2213	CA	ASP	A	290	39.927	80.398	2.682	1.00	35.63	C
ATOM	2214	C	ASP	A	290	40.399	81.501	3.598	1.00	35.06	C
ATOM	2215	O	ASP	A	290	39.934	81.592	4.713	1.00	34.16	O
ATOM	2216	CB	ASP	A	290	38.400	80.343	2.675	1.00	36.85	C
ATOM	2217	CG	ASP	A	290	37.752	81.670	2.203	1.00	38.51	C
ATOM	2218	OD1	ASP	A	290	38.440	82.686	2.047	1.00	39.02	O
ATOM	2219	OD2	ASP	A	290	36.536	81.693	1.997	1.00	40.14	O
ATOM	2220	N	LEU	A	291	41.339	82.321	3.125	1.00	35.27	N
ATOM	2221	CA	LEU	A	291	41.887	83.424	3.914	1.00	35.59	C
ATOM	2222	C	LEU	A	291	40.827	84.402	4.409	1.00	35.86	C
ATOM	2223	O	LEU	A	291	40.911	84.902	5.523	1.00	36.10	O
ATOM	2224	CB	LEU	A	291	42.957	84.166	3.108	1.00	35.32	C
ATOM	2225	CG	LEU	A	291	44.219	83.322	2.906	1.00	35.50	C
ATOM	2226	CD1	LEU	A	291	45.199	84.010	1.946	1.00	34.91	C
ATOM	2227	CD2	LEU	A	291	44.877	83.099	4.269	1.00	34.59	C
ATOM	2228	N	GLU	A	292	39.820	84.676	3.595	1.00	36.64	N
ATOM	2229	CA	GLU	A	292	38.771	85.599	4.034	1.00	37.40	C
ATOM	2230	C	GLU	A	292	37.953	85.031	5.176	1.00	36.10	C
ATOM	2231	O	GLU	A	292	37.672	85.738	6.156	1.00	35.05	O
ATOM	2232	CB	GLU	A	292	37.824	85.955	2.890	1.00	39.68	C
ATOM	2233	CG	GLU	A	292	37.882	87.421	2.497	1.00	43.89	C
ATOM	2234	CD	GLU	A	292	38.010	88.399	3.697	1.00	46.28	C
ATOM	2235	OE1	GLU	A	292	37.107	88.443	4.597	1.00	47.89	O
ATOM	2236	OE2	GLU	A	292	39.035	89.139	3.729	1.00	47.25	O
ATOM	2237	N	ALA	A	293	37.539	83.770	5.044	1.00	34.92	N
ATOM	2238	CA	ALA	A	293	36.762	83.130	6.115	1.00	33.96	C
ATOM	2239	C	ALA	A	293	37.614	83.084	7.389	1.00	33.25	C
ATOM	2240	O	ALA	A	293	37.127	83.312	8.492	1.00	33.23	O
ATOM	2241	CB	ALA	A	293	36.345	81.705	5.705	1.00	33.85	C
ATOM	2242	N	ALA	A	294	38.891	82.770	7.234	1.00	33.18	N
ATOM	2243	CA	ALA	A	294	39.797	82.728	8.387	1.00	33.18	C
ATOM	2244	C	ALA	A	294	39.862	84.113	9.069	1.00	33.31	C
ATOM	2245	O	ALA	A	294	39.911	84.225	10.298	1.00	32.21	O
ATOM	2246	CB	ALA	A	294	41.187	82.331	7.922	1.00	31.96	C
ATOM	2247	N	ARG	A	295	39.904	85.162	8.249	1.00	33.91	N
ATOM	2248	CA	ARG	A	295	39.984	86.527	8.766	1.00	34.94	C



ATOM	2249	C	ARG	A	295	38.700	86.851	9.508	1.00	34.58	C
ATOM	2250	O	ARG	A	295	38.722	87.449	10.585	1.00	34.47	O
ATOM	2251	CB	ARG	A	295	40.187	87.501	7.599	1.00	36.04	C
ATOM	2252	CG	ARG	A	295	40.188	88.990	7.955	1.00	39.48	C
ATOM	2253	CD	ARG	A	295	40.566	89.825	6.697	1.00	41.71	C
ATOM	2254	NE	ARG	A	295	41.965	89.579	6.289	1.00	45.12	N
ATOM	2255	CZ	ARG	A	295	42.365	89.050	5.115	1.00	47.03	C
ATOM	2256	NH1	ARG	A	295	41.477	88.679	4.172	1.00	47.88	N
ATOM	2257	NH2	ARG	A	295	43.675	88.890	4.870	1.00	47.46	N
ATOM	2258	N	GLN	A	296	37.574	86.443	8.940	1.00	34.57	N
ATOM	2259	CA	GLN	A	296	36.299	86.716	9.588	1.00	35.28	C
ATOM	2260	C	GLN	A	296	36.206	86.043	10.977	1.00	34.56	C
ATOM	2261	O	GLN	A	296	35.744	86.633	11.959	1.00	33.72	O
ATOM	2262	CB	GLN	A	296	35.149	86.254	8.691	1.00	37.10	C
ATOM	2263	CG	GLN	A	296	33.793	86.542	9.339	1.00	40.81	C
ATOM	2264	CD	GLN	A	296	32.592	85.995	8.564	1.00	42.68	C
ATOM	2265	OE1	GLN	A	296	31.445	86.076	9.049	1.00	45.25	O
ATOM	2266	NE2	GLN	A	296	32.831	85.447	7.376	1.00	43.21	N
ATOM	2267	N	PHE	A	297	36.662	84.797	11.058	1.00	33.92	N
ATOM	2268	CA	PHE	A	297	36.622	84.051	12.319	1.00	32.96	C
ATOM	2269	C	PHE	A	297	37.587	84.716	13.307	1.00	33.04	C
ATOM	2270	O	PHE	A	297	37.237	85.024	14.455	1.00	33.07	O
ATOM	2271	CB	PHE	A	297	37.048	82.590	12.058	1.00	32.48	C
ATOM	2272	CG	PHE	A	297	37.222	81.770	13.309	1.00	31.38	C
ATOM	2273	CD1	PHE	A	297	36.128	81.458	14.112	1.00	31.25	C
ATOM	2274	CD2	PHE	A	297	38.487	81.323	13.690	1.00	31.16	C
ATOM	2275	CE1	PHE	A	297	36.288	80.709	15.287	1.00	30.75	C
ATOM	2276	CE2	PHE	A	297	38.656	80.569	14.875	1.00	30.76	C
ATOM	2277	CZ	PHE	A	297	37.562	80.270	15.662	1.00	30.33	C
ATOM	2278	N	SER	A	298	38.805	84.946	12.850	1.00	33.28	N
ATOM	2279	CA	SER	A	298	39.826	85.545	13.684	1.00	34.79	C
ATOM	2280	C	SER	A	298	39.414	86.904	14.273	1.00	35.18	C
ATOM	2281	O	SER	A	298	39.513	87.155	15.479	1.00	35.16	O
ATOM	2282	CB	SER	A	298	41.096	85.723	12.860	1.00	35.36	C
ATOM	2283	OG	SER	A	298	42.027	86.415	13.667	1.00	38.06	O
ATOM	2284	N	GLU	A	299	38.929	87.785	13.406	1.00	36.07	N
ATOM	2285	CA	GLU	A	299	38.542	89.113	13.865	1.00	36.59	C
ATOM	2286	C	GLU	A	299	37.343	89.065	14.815	1.00	36.14	C
ATOM	2287	O	GLU	A	299	37.299	89.795	15.807	1.00	35.85	O
ATOM	2288	CB	GLU	A	299	38.272	90.018	12.647	1.00	37.37	C
ATOM	2289	CG	GLU	A	299	39.551	90.221	11.831	1.00	40.43	C
ATOM	2290	CD	GLU	A	299	39.437	91.309	10.765	1.00	42.32	C
ATOM	2291	OE1	GLU	A	299	38.310	91.789	10.515	1.00	43.83	O
ATOM	2292	OE2	GLU	A	299	40.477	91.676	10.173	1.00	43.67	O
ATOM	2293	N	ALA	A	300	36.381	88.192	14.530	1.00	35.68	N
ATOM	2294	CA	ALA	A	300	35.203	88.083	15.385	1.00	35.16	C
ATOM	2295	C	ALA	A	300	35.580	87.621	16.808	1.00	35.19	C
ATOM	2296	O	ALA	A	300	35.076	88.158	17.804	1.00	34.89	O
ATOM	2297	CB	ALA	A	300	34.192	87.130	14.748	1.00	35.33	C
ATOM	2298	N	VAL	A	301	36.487	86.643	16.914	1.00	34.89	N
ATOM	2299	CA	VAL	A	301	36.934	86.154	18.218	1.00	33.84	C
ATOM	2300	C	VAL	A	301	37.863	87.185	18.900	1.00	34.50	C
ATOM	2301	O	VAL	A	301	37.773	87.432	20.109	1.00	34.02	O
ATOM	2302	CB	VAL	A	301	37.753	84.819	18.092	1.00	33.28	C
ATOM	2303	CG1	VAL	A	301	38.318	84.441	19.445	1.00	31.88	C
ATOM	2304	CG2	VAL	A	301	36.883	83.704	17.508	1.00	32.53	C
ATOM	2305	N	LYS	A	302	38.771	87.776	18.138	1.00	35.31	N
ATOM	2306	CA	LYS	A	302	39.682	88.723	18.760	1.00	36.84	C
ATOM	2307	C	LYS	A	302	38.997	90.032	19.189	1.00	37.64	C
ATOM	2308	O	LYS	A	302	39.526	90.741	20.040	1.00	37.45	O
ATOM	2309	CB	LYS	A	302	40.877	88.997	17.852	1.00	36.98	C
ATOM	2310	CG	LYS	A	302	41.920	87.879	17.870	1.00	37.77	C
ATOM	2311	CD	LYS	A	302	43.113	88.237	16.995	1.00	38.07	C
ATOM	2312	CE	LYS	A	302	44.273	87.272	17.192	1.00	38.69	C
ATOM	2313	NZ	LYS	A	302	44.761	87.117	18.618	1.00	38.89	N
ATOM	2314	N	ALA	A	303	37.825	90.328	18.625	1.00	38.44	N
ATOM	2315	CA	ALA	A	303	37.072	91.528	19.013	1.00	39.26	C
ATOM	2316	C	ALA	A	303	36.646	91.375	20.471	1.00	40.41	C
ATOM	2317	O	ALA	A	303	36.414	92.361	21.191	1.00	40.47	O
ATOM	2318	CB	ALA	A	303	35.846	91.668	18.155	1.00	38.51	C
ATOM	2319	N	GLU	A	304	36.520	90.122	20.896	1.00	40.72	N
ATOM	2320	CA	GLU	A	304	36.111	89.789	22.255	1.00	41.14	C
ATOM	2321	C	GLU	A	304	37.333	89.438	23.093	1.00	40.32	C
ATOM	2322	O	GLU	A	304	37.440	89.826	24.255	1.00	39.98	O
ATOM	2323	CB	GLU	A	304	35.183	88.585	22.195	1.00	43.75	C
ATOM	2324	CG	GLU	A	304	34.137	88.540	23.227	1.00	47.35	C
ATOM	2325	CD	GLU	A	304	33.327	89.807	23.230	1.00	50.01	C
ATOM	2326	OE1	GLU	A	304	32.886	90.241	22.142	1.00	51.77	O
ATOM	2327	OE2	GLU	A	304	33.132	90.378	24.329	1.00	51.72	O
ATOM	2328	N	TYR	A	305	38.257	88.689	22.490	1.00	39.08	N



ATOM	2329	CA	TYR	A	305	39.480	88.227	23.167	1.00	37.98	C
ATOM	2330	C	TYR	A	305	40.673	88.548	22.307	1.00	37.83	C
ATOM	2331	O	TYR	A	305	41.223	87.665	21.631	1.00	36.81	O
ATOM	2332	CB	TYR	A	305	39.408	86.718	23.380	1.00	37.61	C
ATOM	2333	CG	TYR	A	305	38.325	86.319	24.343	1.00	37.17	C
ATOM	2334	CD1	TYR	A	305	38.535	86.394	25.705	1.00	37.89	C
ATOM	2335	CD2	TYR	A	305	37.071	85.924	23.896	1.00	37.52	C
ATOM	2336	CE1	TYR	A	305	37.519	86.088	26.616	1.00	38.21	C
ATOM	2337	CE2	TYR	A	305	36.043	85.617	24.804	1.00	37.98	C
ATOM	2338	CZ	TYR	A	305	36.288	85.706	26.154	1.00	38.08	C
ATOM	2339	OH	TYR	A	305	35.301	85.443	27.073	1.00	39.97	O
ATOM	2340	N	PRO	A	306	41.094	89.827	22.315	1.00	37.64	N
ATOM	2341	CA	PRO	A	306	42.232	90.282	21.521	1.00	37.29	C
ATOM	2342	C	PRO	A	306	43.487	89.444	21.570	1.00	36.26	C
ATOM	2343	O	PRO	A	306	44.162	89.313	20.563	1.00	35.91	O
ATOM	2344	CB	PRO	A	306	42.474	91.721	22.028	1.00	37.32	C
ATOM	2345	CG	PRO	A	306	41.843	91.745	23.381	1.00	37.92	C
ATOM	2346	CD	PRO	A	306	40.595	90.924	23.169	1.00	37.98	C
ATOM	2347	N	ASP	A	307	43.807	88.880	22.726	1.00	35.81	N
ATOM	2348	CA	ASP	A	307	45.035	88.097	22.823	1.00	36.03	C
ATOM	2349	C	ASP	A	307	44.848	86.586	22.594	1.00	35.12	C
ATOM	2350	O	ASP	A	307	45.789	85.798	22.789	1.00	34.54	O
ATOM	2351	CB	ASP	A	307	45.686	88.315	24.190	1.00	37.63	C
ATOM	2352	CG	ASP	A	307	46.032	89.790	24.442	1.00	39.34	C
ATOM	2353	OD1	ASP	A	307	46.558	90.444	23.524	1.00	39.57	O
ATOM	2354	OD2	ASP	A	307	45.767	90.271	25.559	1.00	40.79	O
ATOM	2355	N	GLN	A	308	43.652	86.179	22.198	1.00	33.37	N
ATOM	2356	CA	GLN	A	308	43.424	84.745	21.976	1.00	32.75	C
ATOM	2357	C	GLN	A	308	44.189	84.192	20.772	1.00	32.13	C
ATOM	2358	O	GLN	A	308	43.955	84.624	19.644	1.00	32.10	O
ATOM	2359	CB	GLN	A	308	41.933	84.469	21.781	1.00	32.25	C
ATOM	2360	CG	GLN	A	308	41.594	82.962	21.655	1.00	31.32	C
ATOM	2361	CD	GLN	A	308	42.117	82.159	22.847	1.00	31.01	C
ATOM	2362	OE1	GLN	A	308	43.054	81.332	22.715	1.00	31.74	O
ATOM	2363	NE2	GLN	A	308	41.537	82.396	24.006	1.00	28.83	N
ATOM	2364	N	MET	A	309	45.107	83.248	20.999	1.00	31.67	N
ATOM	2365	CA	MET	A	309	45.825	82.636	19.873	1.00	30.56	C
ATOM	2366	C	MET	A	309	44.912	81.571	19.262	1.00	30.31	C
ATOM	2367	O	MET	A	309	44.067	80.970	19.959	1.00	29.92	O
ATOM	2368	CB	MET	A	309	47.138	81.994	20.311	1.00	30.59	C
ATOM	2369	CG	MET	A	309	48.132	82.994	20.811	1.00	32.58	C
ATOM	2370	SD	MET	A	309	49.755	82.280	21.145	1.00	34.43	S
ATOM	2371	CE	MET	A	309	49.470	81.386	22.718	1.00	33.03	C
ATOM	2372	N	LEU	A	310	45.099	81.333	17.970	1.00	28.88	N
ATOM	2373	CA	LEU	A	310	44.264	80.396	17.249	1.00	28.68	C
ATOM	2374	C	LEU	A	310	45.148	79.376	16.558	1.00	28.13	C
ATOM	2375	O	LEU	A	310	46.343	79.630	16.347	1.00	27.95	O
ATOM	2376	CB	LEU	A	310	43.435	81.154	16.191	1.00	28.12	C
ATOM	2377	CG	LEU	A	310	42.690	82.389	16.723	1.00	29.39	C
ATOM	2378	CD1	LEU	A	310	42.196	83.263	15.542	1.00	28.80	C
ATOM	2379	CD2	LEU	A	310	41.501	81.934	17.585	1.00	28.63	C
ATOM	2380	N	ALA	A	311	44.554	78.236	16.196	1.00	27.62	N
ATOM	2381	CA	ALA	A	311	45.282	77.175	15.496	1.00	26.82	C
ATOM	2382	C	ALA	A	311	44.533	76.932	14.191	1.00	26.54	C
ATOM	2383	O	ALA	A	311	43.319	77.109	14.124	1.00	27.08	O
ATOM	2384	CB	ALA	A	311	45.320	75.906	16.353	1.00	26.55	C
ATOM	2385	N	TYR	A	312	45.238	76.478	13.163	1.00	26.94	N
ATOM	2386	CA	TYR	A	312	44.591	76.275	11.878	1.00	26.83	C
ATOM	2387	C	TYR	A	312	45.130	75.038	11.156	1.00	26.86	C
ATOM	2388	O	TYR	A	312	46.340	74.889	11.020	1.00	26.59	O
ATOM	2389	CB	TYR	A	312	44.842	77.537	11.024	1.00	27.42	C
ATOM	2390	CG	TYR	A	312	44.094	77.591	9.723	1.00	27.68	C
ATOM	2391	CD1	TYR	A	312	44.516	76.862	8.609	1.00	28.90	C
ATOM	2392	CD2	TYR	A	312	42.940	78.359	9.613	1.00	28.98	C
ATOM	2393	CE1	TYR	A	312	43.781	76.903	7.394	1.00	29.48	C
ATOM	2394	CE2	TYR	A	312	42.205	78.404	8.430	1.00	29.90	C
ATOM	2395	CZ	TYR	A	312	42.626	77.679	7.338	1.00	30.18	C
ATOM	2396	OH	TYR	A	312	41.855	77.719	6.211	1.00	32.61	O
ATOM	2397	N	ASN	A	313	44.247	74.151	10.701	1.00	27.19	N
ATOM	2398	CA	ASN	A	313	44.699	72.972	9.941	1.00	28.08	C
ATOM	2399	C	ASN	A	313	44.563	73.328	8.474	1.00	27.44	C
ATOM	2400	O	ASN	A	313	43.481	73.770	8.037	1.00	27.13	O
ATOM	2401	CB	ASN	A	313	43.832	71.705	10.177	1.00	29.00	C
ATOM	2402	CG	ASN	A	313	44.335	70.493	9.321	1.00	31.50	C
ATOM	2403	OD1	ASN	A	313	45.544	70.341	9.119	1.00	31.52	O
ATOM	2404	ND2	ASN	A	313	43.415	69.655	8.817	1.00	31.28	N
ATOM	2405	N	CYS	A	314	45.641	73.159	7.721	1.00	27.48	N
ATOM	2406	CA	CYS	A	314	45.612	73.425	6.285	1.00	27.81	C
ATOM	2407	C	CYS	A	314	45.196	72.110	5.648	1.00	28.43	C
ATOM	2408	O	CYS	A	314	45.970	71.147	5.622	1.00	27.89	O



ATOM	2409	CB	CYS	A	314	46.993	73.849	5.811	1.00	29.00	C
ATOM	2410	SG	CYS	A	314	47.504	75.409	6.613	1.00	30.48	S
ATOM	2411	N	SER	A	315	43.974	72.091	5.120	1.00	29.32	N
ATOM	2412	CA	SER	A	315	43.377	70.882	4.541	1.00	30.48	C
ATOM	2413	C	SER	A	315	44.233	70.043	3.598	1.00	30.10	C
ATOM	2414	O	SER	A	315	44.688	70.523	2.560	1.00	30.36	O
ATOM	2415	CB	SER	A	315	42.057	71.214	3.837	1.00	31.59	C
ATOM	2416	OG	SER	A	315	41.553	70.014	3.231	1.00	33.89	O
ATOM	2417	N	PRO	A	316	44.484	68.770	3.968	1.00	29.59	N
ATOM	2418	CA	PRO	A	316	45.294	67.904	3.119	1.00	29.89	C
ATOM	2419	C	PRO	A	316	44.536	67.383	1.900	1.00	30.79	C
ATOM	2420	O	PRO	A	316	45.154	66.960	0.912	1.00	31.00	O
ATOM	2421	CB	PRO	A	316	45.712	66.764	4.067	1.00	29.43	C
ATOM	2422	CG	PRO	A	316	44.578	66.668	5.002	1.00	29.30	C
ATOM	2423	CD	PRO	A	316	44.222	68.141	5.275	1.00	29.30	C
ATOM	2424	N	SER	A	317	43.209	67.395	1.981	1.00	31.43	N
ATOM	2425	CA	SER	A	317	42.385	66.880	0.901	1.00	32.47	C
ATOM	2426	C	SER	A	317	41.914	67.918	-0.118	1.00	33.27	C
ATOM	2427	O	SER	A	317	41.556	67.555	-1.253	1.00	33.60	O
ATOM	2428	CB	SER	A	317	41.163	66.196	1.473	1.00	32.12	C
ATOM	2429	OG	SER	A	317	40.462	67.120	2.263	1.00	33.44	O
ATOM	2430	N	PHE	A	318	41.891	69.184	0.286	1.00	33.30	N
ATOM	2431	CA	PHE	A	318	41.488	70.271	-0.590	1.00	33.71	C
ATOM	2432	C	PHE	A	318	42.454	70.274	-1.785	1.00	34.55	C
ATOM	2433	O	PHE	A	318	43.683	70.161	-1.592	1.00	33.93	O
ATOM	2434	CB	PHE	A	318	41.612	71.604	0.168	1.00	34.23	C
ATOM	2435	CG	PHE	A	318	41.211	72.816	-0.642	1.00	35.53	C
ATOM	2436	CD1	PHE	A	318	39.872	73.050	-0.950	1.00	35.95	C
ATOM	2437	CD2	PHE	A	318	42.157	73.759	-1.026	1.00	35.67	C
ATOM	2438	CE1	PHE	A	318	39.467	74.225	-1.635	1.00	37.17	C
ATOM	2439	CE2	PHE	A	318	41.765	74.947	-1.709	1.00	36.72	C
ATOM	2440	CZ	PHE	A	318	40.425	75.180	-2.013	1.00	35.87	C
ATOM	2441	N	ASN	A	319	41.909	70.402	-3.002	1.00	34.29	N
ATOM	2442	CA	ASN	A	319	42.717	70.441	-4.234	1.00	35.17	C
ATOM	2443	C	ASN	A	319	43.263	71.878	-4.325	1.00	35.74	C
ATOM	2444	O	ASN	A	319	42.669	72.759	-4.962	1.00	36.71	O
ATOM	2445	CB	ASN	A	319	41.810	70.102	-5.419	1.00	34.81	C
ATOM	2446	CG	ASN	A	319	42.567	69.882	-6.738	1.00	35.70	C
ATOM	2447	OD1	ASN	A	319	42.045	69.189	-7.630	1.00	36.40	O
ATOM	2448	ND2	ASN	A	319	43.750	70.470	-6.889	1.00	33.18	N
ATOM	2449	N	TRP	A	320	44.409	72.104	-3.705	1.00	35.39	N
ATOM	2450	CA	TRP	A	320	44.964	73.445	-3.656	1.00	35.82	C
ATOM	2451	C	TRP	A	320	45.186	74.136	-4.999	1.00	37.17	C
ATOM	2452	O	TRP	A	320	44.651	75.216	-5.231	1.00	37.61	O
ATOM	2453	CB	TRP	A	320	46.277	73.448	-2.857	1.00	34.28	C
ATOM	2454	CG	TRP	A	320	46.084	73.091	-1.411	1.00	32.97	C
ATOM	2455	CD1	TRP	A	320	45.889	71.850	-0.900	1.00	32.55	C
ATOM	2456	CD2	TRP	A	320	46.002	74.000	-0.300	1.00	32.53	C
ATOM	2457	NE1	TRP	A	320	45.680	71.915	0.465	1.00	31.94	N
ATOM	2458	CE2	TRP	A	320	45.746	73.222	0.860	1.00	32.12	C
ATOM	2459	CE3	TRP	A	320	46.116	75.392	-0.172	1.00	32.34	C
ATOM	2460	CZ2	TRP	A	320	45.603	73.787	2.134	1.00	32.34	C
ATOM	2461	CZ3	TRP	A	320	45.974	75.962	1.099	1.00	32.52	C
ATOM	2462	CH2	TRP	A	320	45.720	75.155	2.238	1.00	32.01	C
ATOM	2463	N	LYS	A	321	45.975	73.527	-5.869	1.00	38.20	N
ATOM	2464	CA	LYS	A	321	46.297	74.152	-7.144	1.00	40.01	C
ATOM	2465	C	LYS	A	321	45.084	74.358	-8.050	1.00	40.24	C
ATOM	2466	O	LYS	A	321	45.093	75.253	-8.901	1.00	40.84	O
ATOM	2467	CB	LYS	A	321	47.401	73.350	-7.849	1.00	41.44	C
ATOM	2468	CG	LYS	A	321	47.722	73.865	-9.254	1.00	44.41	C
ATOM	2469	CD	LYS	A	321	48.944	73.224	-9.894	1.00	45.86	C
ATOM	2470	CE	LYS	A	321	50.197	73.838	-9.331	1.00	47.37	C
ATOM	2471	NZ	LYS	A	321	50.261	73.523	-7.865	1.00	48.02	N
ATOM	2472	N	LYS	A	322	44.036	73.554	-7.868	1.00	39.89	N
ATOM	2473	CA	LYS	A	322	42.837	73.706	-8.684	1.00	39.94	C
ATOM	2474	C	LYS	A	322	42.077	74.969	-8.294	1.00	40.16	C
ATOM	2475	O	LYS	A	322	41.469	75.648	-9.147	1.00	40.21	O
ATOM	2476	CB	LYS	A	322	41.905	72.506	-8.504	1.00	40.33	C
ATOM	2477	CG	LYS	A	322	40.596	72.619	-9.284	1.00	41.10	C
ATOM	2478	CD	LYS	A	322	39.713	71.391	-9.069	1.00	41.42	C
ATOM	2479	CE	LYS	A	322	38.410	71.523	-9.850	1.00	42.77	C
ATOM	2480	NZ	LYS	A	322	37.488	70.349	-9.659	1.00	43.40	N
ATOM	2481	N	HIS	A	323	42.123	75.297	-7.007	1.00	39.35	N
ATOM	2482	CA	HIS	A	323	41.386	76.442	-6.519	1.00	39.05	C
ATOM	2483	C	HIS	A	323	42.175	77.687	-6.190	1.00	38.44	C
ATOM	2484	O	HIS	A	323	41.603	78.777	-6.133	1.00	38.80	O
ATOM	2485	CB	HIS	A	323	40.573	76.020	-5.308	1.00	39.59	C
ATOM	2486	CG	HIS	A	323	39.642	74.892	-5.599	1.00	41.25	C
ATOM	2487	ND1	HIS	A	323	38.554	75.027	-6.437	1.00	41.66	N
ATOM	2488	CD2	HIS	A	323	39.659	73.592	-5.210	1.00	41.76	C



ATOM	2489	CE1	HIS	A	323	37.939	73.861	-6.550	1.00	42.29	C
ATOM	2490	NE2	HIS	A	323	38.588	72.973	-5.814	1.00	42.06	N
ATOM	2491	N	LEU	A	324	43.477	77.564	-5.986	1.00	37.46	N
ATOM	2492	CA	LEU	A	324	44.248	78.749	-5.633	1.00	37.01	C
ATOM	2493	C	LEU	A	324	45.438	78.872	-6.552	1.00	37.50	C
ATOM	2494	O	LEU	A	324	45.904	77.868	-7.108	1.00	37.63	O
ATOM	2495	CB	LEU	A	324	44.708	78.654	-4.170	1.00	36.24	C
ATOM	2496	CG	LEU	A	324	43.612	78.437	-3.111	1.00	36.49	C
ATOM	2497	CD1	LEU	A	324	44.248	78.146	-1.760	1.00	36.33	C
ATOM	2498	CD2	LEU	A	324	42.728	79.670	-2.996	1.00	35.86	C
ATOM	2499	N	ASP	A	325	45.914	80.103	-6.739	1.00	37.95	N
ATOM	2500	CA	ASP	A	325	47.078	80.311	-7.578	1.00	39.05	C
ATOM	2501	C	ASP	A	325	48.287	80.066	-6.722	1.00	38.77	C
ATOM	2502	O	ASP	A	325	48.193	80.053	-5.483	1.00	38.81	O
ATOM	2503	CB	ASP	A	325	47.128	81.740	-8.164	1.00	40.82	C
ATOM	2504	CG	ASP	A	325	46.824	82.810	-7.140	1.00	42.08	C
ATOM	2505	OD1	ASP	A	325	47.463	82.824	-6.060	1.00	42.93	O
ATOM	2506	OD2	ASP	A	325	45.940	83.654	-7.434	1.00	44.32	O
ATOM	2507	N	ASP	A	326	49.424	79.879	-7.378	1.00	38.71	N
ATOM	2508	CA	ASP	A	326	50.643	79.621	-6.663	1.00	38.63	C
ATOM	2509	C	ASP	A	326	51.000	80.713	-5.682	1.00	38.08	C
ATOM	2510	O	ASP	A	326	51.571	80.432	-4.632	1.00	37.26	O
ATOM	2511	CB	ASP	A	326	51.790	79.397	-7.637	1.00	40.37	C
ATOM	2512	CG	ASP	A	326	51.607	78.134	-8.447	1.00	42.08	C
ATOM	2513	OD1	ASP	A	326	50.885	77.218	-7.987	1.00	43.03	O
ATOM	2514	OD2	ASP	A	326	52.188	78.044	-9.540	1.00	44.19	O
ATOM	2515	N	ALA	A	327	50.668	81.960	-6.009	1.00	36.83	N
ATOM	2516	CA	ALA	A	327	51.006	83.048	-5.099	1.00	35.67	C
ATOM	2517	C	ALA	A	327	50.207	82.941	-3.807	1.00	34.89	C
ATOM	2518	O	ALA	A	327	50.750	83.124	-2.715	1.00	34.94	O
ATOM	2519	CB	ALA	A	327	50.734	84.414	-5.779	1.00	37.19	C
ATOM	2520	N	THR	A	328	48.916	82.648	-3.929	1.00	33.81	N
ATOM	2521	CA	THR	A	328	48.076	82.549	-2.757	1.00	33.35	C
ATOM	2522	C	THR	A	328	48.509	81.360	-1.889	1.00	32.88	C
ATOM	2523	O	THR	A	328	48.507	81.450	-0.658	1.00	32.95	O
ATOM	2524	CB	THR	A	328	46.598	82.457	-3.184	1.00	34.58	C
ATOM	2525	OG1	THR	A	328	46.249	83.674	-3.860	1.00	34.68	O
ATOM	2526	CG2	THR	A	328	45.667	82.292	-1.969	1.00	34.11	C
ATOM	2527	N	ILE	A	329	48.930	80.277	-2.541	1.00	32.05	N
ATOM	2528	CA	ILE	A	329	49.395	79.072	-1.851	1.00	31.15	C
ATOM	2529	C	ILE	A	329	50.688	79.390	-1.119	1.00	31.43	C
ATOM	2530	O	ILE	A	329	50.894	78.991	0.037	1.00	31.26	O
ATOM	2531	CB	ILE	A	329	49.650	77.950	-2.868	1.00	29.98	C
ATOM	2532	CG1	ILE	A	329	48.318	77.468	-3.432	1.00	29.91	C
ATOM	2533	CG2	ILE	A	329	50.415	76.756	-2.211	1.00	31.39	C
ATOM	2534	CD1	ILE	A	329	48.441	76.695	-4.773	1.00	29.59	C
ATOM	2535	N	ALA	A	330	51.561	80.144	-1.786	1.00	31.45	N
ATOM	2536	CA	ALA	A	330	52.843	80.482	-1.202	1.00	31.59	C
ATOM	2537	C	ALA	A	330	52.751	81.382	0.027	1.00	32.09	C
ATOM	2538	O	ALA	A	330	53.562	81.262	0.941	1.00	32.19	O
ATOM	2539	CB	ALA	A	330	53.733	81.132	-2.262	1.00	31.84	C
ATOM	2540	N	LYS	A	331	51.759	82.269	0.059	1.00	32.01	N
ATOM	2541	CA	LYS	A	331	51.620	83.196	1.175	1.00	32.77	C
ATOM	2542	C	LYS	A	331	50.614	82.753	2.257	1.00	32.13	C
ATOM	2543	O	LYS	A	331	50.521	83.387	3.316	1.00	31.60	O
ATOM	2544	CB	LYS	A	331	51.147	84.558	0.653	1.00	33.48	C
ATOM	2545	CG	LYS	A	331	49.652	84.551	0.296	1.00	34.68	C
ATOM	2546	CD	LYS	A	331	49.173	85.918	-0.222	1.00	36.45	C
ATOM	2547	CE	LYS	A	331	47.671	85.883	-0.511	1.00	37.57	C
ATOM	2548	NZ	LYS	A	331	47.201	87.043	-1.339	1.00	38.44	N
ATOM	2549	N	PHE	A	332	49.857	81.694	1.969	1.00	31.99	N
ATOM	2550	CA	PHE	A	332	48.799	81.220	2.864	1.00	31.74	C
ATOM	2551	C	PHE	A	332	49.112	81.193	4.378	1.00	31.28	C
ATOM	2552	O	PHE	A	332	48.450	81.863	5.172	1.00	31.04	O
ATOM	2553	CB	PHE	A	332	48.296	79.847	2.359	1.00	32.81	C
ATOM	2554	CG	PHE	A	332	46.901	79.525	2.808	1.00	33.89	C
ATOM	2555	CD1	PHE	A	332	45.808	80.134	2.203	1.00	34.41	C
ATOM	2556	CD2	PHE	A	332	46.683	78.663	3.876	1.00	34.72	C
ATOM	2557	CE1	PHE	A	332	44.504	79.902	2.651	1.00	34.48	C
ATOM	2558	CE2	PHE	A	332	45.382	78.417	4.335	1.00	34.84	C
ATOM	2559	CZ	PHE	A	332	44.289	79.048	3.710	1.00	34.33	C
ATOM	2560	N	GLN	A	333	50.118	80.445	4.807	1.00	31.85	N
ATOM	2561	CA	GLN	A	333	50.416	80.404	6.246	1.00	31.77	C
ATOM	2562	C	GLN	A	333	50.901	81.765	6.833	1.00	32.55	C
ATOM	2563	O	GLN	A	333	50.571	82.155	7.964	1.00	31.94	O
ATOM	2564	CB	GLN	A	333	51.462	79.321	6.524	1.00	31.35	C
ATOM	2565	CG	GLN	A	333	50.969	77.898	6.221	1.00	30.80	C
ATOM	2566	CD	GLN	A	333	51.696	76.823	7.040	1.00	31.57	C
ATOM	2567	OE1	GLN	A	333	52.760	77.061	7.651	1.00	29.83	O
ATOM	2568	NE2	GLN	A	333	51.126	75.612	7.034	1.00	32.08	N



ATOM	2569	N	LYS	A	334	51.705	82.474	6.060	1.00	33.49	N
ATOM	2570	CA	LYS	A	334	52.224	83.769	6.489	1.00	34.39	C
ATOM	2571	C	LYS	A	334	51.024	84.682	6.783	1.00	34.06	C
ATOM	2572	O	LYS	A	334	50.924	85.324	7.831	1.00	33.29	O
ATOM	2573	CB	LYS	A	334	53.111	84.323	5.354	1.00	35.91	C
ATOM	2574	CG	LYS	A	334	53.755	85.699	5.576	1.00	39.08	C
ATOM	2575	CD	LYS	A	334	54.189	85.921	7.020	1.00	41.44	C
ATOM	2576	CE	LYS	A	334	53.080	86.683	7.816	1.00	43.26	C
ATOM	2577	NZ	LYS	A	334	53.151	86.788	9.322	1.00	41.76	N
ATOM	2578	N	GLU	A	335	50.091	84.684	5.849	1.00	34.09	N
ATOM	2579	CA	GLU	A	335	48.898	85.493	5.955	1.00	34.79	C
ATOM	2580	C	GLU	A	335	48.088	85.082	7.196	1.00	33.88	C
ATOM	2581	O	GLU	A	335	47.611	85.922	7.966	1.00	33.39	O
ATOM	2582	CB	GLU	A	335	48.081	85.287	4.689	1.00	37.19	C
ATOM	2583	CG	GLU	A	335	47.166	86.400	4.360	1.00	42.12	C
ATOM	2584	CD	GLU	A	335	47.779	87.386	3.368	1.00	44.34	C
ATOM	2585	OE1	GLU	A	335	48.995	87.717	3.498	1.00	45.33	O
ATOM	2586	OE2	GLU	A	335	47.021	87.826	2.467	1.00	45.66	O
ATOM	2587	N	LEU	A	336	47.924	83.778	7.391	1.00	32.42	N
ATOM	2588	CA	LEU	A	336	47.181	83.293	8.554	1.00	31.12	C
ATOM	2589	C	LEU	A	336	47.878	83.708	9.836	1.00	30.63	C
ATOM	2590	O	LEU	A	336	47.229	84.097	10.811	1.00	31.12	O
ATOM	2591	CB	LEU	A	336	47.060	81.748	8.502	1.00	30.63	C
ATOM	2592	CG	LEU	A	336	46.081	81.189	7.461	1.00	31.45	C
ATOM	2593	CD1	LEU	A	336	46.179	79.664	7.429	1.00	31.96	C
ATOM	2594	CD2	LEU	A	336	44.651	81.630	7.782	1.00	30.69	C
ATOM	2595	N	ALA	A	337	49.198	83.621	9.854	1.00	30.12	N
ATOM	2596	CA	ALA	A	337	49.938	83.962	11.062	1.00	31.09	C
ATOM	2597	C	ALA	A	337	49.675	85.400	11.504	1.00	31.81	C
ATOM	2598	O	ALA	A	337	49.645	85.702	12.701	1.00	31.15	O
ATOM	2599	CB	ALA	A	337	51.417	83.761	10.828	1.00	30.89	C
ATOM	2600	N	ALA	A	338	49.491	86.269	10.519	1.00	32.33	N
ATOM	2601	CA	ALA	A	338	49.244	87.678	10.768	1.00	33.18	C
ATOM	2602	C	ALA	A	338	47.864	87.877	11.376	1.00	34.08	C
ATOM	2603	O	ALA	A	338	47.614	88.884	12.051	1.00	34.96	O
ATOM	2604	CB	ALA	A	338	49.392	88.471	9.439	1.00	32.95	C
ATOM	2605	N	MET	A	339	46.964	86.917	11.154	1.00	33.97	N
ATOM	2606	CA	MET	A	339	45.620	86.984	11.720	1.00	33.44	C
ATOM	2607	C	MET	A	339	45.589	86.401	13.135	1.00	33.00	C
ATOM	2608	O	MET	A	339	44.575	86.484	13.826	1.00	33.47	O
ATOM	2609	CB	MET	A	339	44.631	86.212	10.854	1.00	33.99	C
ATOM	2610	CG	MET	A	339	44.381	86.811	9.491	1.00	35.43	C
ATOM	2611	SD	MET	A	339	43.411	85.633	8.532	1.00	37.01	S
ATOM	2612	CE	MET	A	339	43.928	86.028	6.875	1.00	36.83	C
ATOM	2613	N	GLY	A	340	46.692	85.818	13.583	1.00	32.29	N
ATOM	2614	CA	GLY	A	340	46.684	85.256	14.923	1.00	32.03	C
ATOM	2615	C	GLY	A	340	46.647	83.723	14.966	1.00	31.37	C
ATOM	2616	O	GLY	A	340	46.526	83.145	16.041	1.00	31.88	O
ATOM	2617	N	PHE	A	341	46.727	83.063	13.818	1.00	30.42	N
ATOM	2618	CA	PHE	A	341	46.762	81.591	13.804	1.00	29.85	C
ATOM	2619	C	PHE	A	341	48.225	81.256	14.031	1.00	29.55	C
ATOM	2620	O	PHE	A	341	49.006	81.160	13.076	1.00	29.89	O
ATOM	2621	CB	PHE	A	341	46.279	81.063	12.458	1.00	28.43	C
ATOM	2622	CG	PHE	A	341	44.822	81.331	12.215	1.00	29.33	C
ATOM	2623	CD1	PHE	A	341	43.835	80.526	12.796	1.00	29.10	C
ATOM	2624	CD2	PHE	A	341	44.425	82.417	11.441	1.00	29.30	C
ATOM	2625	CE1	PHE	A	341	42.477	80.796	12.606	1.00	28.94	C
ATOM	2626	CE2	PHE	A	341	43.066	82.700	11.246	1.00	29.11	C
ATOM	2627	CZ	PHE	A	341	42.095	81.887	11.829	1.00	30.00	C
ATOM	2628	N	LYS	A	342	48.587	81.115	15.307	1.00	29.61	N
ATOM	2629	CA	LYS	A	342	49.966	80.860	15.703	1.00	29.31	C
ATOM	2630	C	LYS	A	342	50.434	79.419	15.613	1.00	28.97	C
ATOM	2631	O	LYS	A	342	51.654	79.158	15.603	1.00	27.76	O
ATOM	2632	CB	LYS	A	342	50.220	81.416	17.121	1.00	30.53	C
ATOM	2633	CG	LYS	A	342	50.167	82.966	17.220	1.00	32.85	C
ATOM	2634	CD	LYS	A	342	50.907	83.618	16.047	1.00	34.58	C
ATOM	2635	CE	LYS	A	342	50.902	85.166	16.121	1.00	36.41	C
ATOM	2636	NZ	LYS	A	342	51.414	85.724	14.805	1.00	38.01	N
ATOM	2637	N	PHE	A	343	49.479	78.473	15.567	1.00	28.41	N
ATOM	2638	CA	PHE	A	343	49.838	77.056	15.407	1.00	27.30	C
ATOM	2639	C	PHE	A	343	49.124	76.565	14.146	1.00	26.55	C
ATOM	2640	O	PHE	A	343	47.872	76.579	14.059	1.00	26.28	O
ATOM	2641	CB	PHE	A	343	49.436	76.182	16.616	1.00	27.20	C
ATOM	2642	CG	PHE	A	343	49.945	74.734	16.499	1.00	28.42	C
ATOM	2643	CD1	PHE	A	343	51.324	74.455	16.601	1.00	27.82	C
ATOM	2644	CD2	PHE	A	343	49.071	73.690	16.180	1.00	27.70	C
ATOM	2645	CE1	PHE	A	343	51.820	73.170	16.375	1.00	27.95	C
ATOM	2646	CE2	PHE	A	343	49.553	72.380	15.946	1.00	27.24	C
ATOM	2647	CZ	PHE	A	343	50.930	72.119	16.039	1.00	27.37	C
ATOM	2648	N	GLN	A	344	49.923	76.135	13.171	1.00	26.04	N



ATOM	2649	CA	GLN	A	344	49.392	75.687	11.887	1.00	25.97	C
ATOM	2650	C	GLN	A	344	49.950	74.319	11.528	1.00	25.86	C
ATOM	2651	O	GLN	A	344	51.119	74.029	11.779	1.00	25.72	O
ATOM	2652	CB	GLN	A	344	49.745	76.708	10.792	1.00	27.49	C
ATOM	2653	CG	GLN	A	344	49.324	78.156	11.146	1.00	28.46	C
ATOM	2654	CD	GLN	A	344	49.595	79.143	9.996	1.00	29.50	O
ATOM	2655	OE1	GLN	A	344	49.897	80.335	10.227	1.00	30.96	C
ATOM	2656	NE2	GLN	A	344	49.464	78.665	8.778	1.00	28.18	N
ATOM	2657	N	PHE	A	345	49.121	73.479	10.918	1.00	25.27	N
ATOM	2658	CA	PHE	A	345	49.600	72.159	10.609	1.00	25.46	C
ATOM	2659	C	PHE	A	345	48.878	71.515	9.445	1.00	25.60	C
ATOM	2660	O	PHE	A	345	47.846	72.031	8.962	1.00	27.21	O
ATOM	2661	CB	PHE	A	345	49.455	71.288	11.876	1.00	24.95	C
ATOM	2662	CG	PHE	A	345	48.086	71.351	12.503	1.00	25.26	C
ATOM	2663	CD1	PHE	A	345	47.668	72.491	13.185	1.00	24.97	C
ATOM	2664	CD2	PHE	A	345	47.189	70.274	12.379	1.00	26.06	C
ATOM	2665	CE1	PHE	A	345	46.383	72.576	13.738	1.00	26.02	C
ATOM	2666	CE2	PHE	A	345	45.879	70.343	12.935	1.00	25.44	C
ATOM	2667	CZ	PHE	A	345	45.479	71.504	13.616	1.00	26.46	C
ATOM	2668	N	ILE	A	346	49.426	70.401	8.963	1.00	24.20	N
ATOM	2669	CA	ILE	A	346	48.745	69.649	7.924	1.00	23.59	C
ATOM	2670	C	ILE	A	346	48.540	68.281	8.588	1.00	23.77	C
ATOM	2671	O	ILE	A	346	49.486	67.509	8.753	1.00	22.12	O
ATOM	2672	CB	ILE	A	346	49.595	69.481	6.642	1.00	23.72	C
ATOM	2673	CG1	ILE	A	346	49.953	70.853	6.040	1.00	23.45	C
ATOM	2674	CG2	ILE	A	346	48.788	68.700	5.646	1.00	23.17	C
ATOM	2675	CD1	ILE	A	346	50.792	70.770	4.755	1.00	21.85	C
ATOM	2676	N	THR	A	347	47.305	67.997	8.984	1.00	23.24	N
ATOM	2677	CA	THR	A	347	47.020	66.751	9.669	1.00	23.46	C
ATOM	2678	C	THR	A	347	47.531	65.471	9.032	1.00	23.73	C
ATOM	2679	O	THR	A	347	48.173	64.679	9.708	1.00	23.30	O
ATOM	2680	CB	THR	A	347	45.515	66.558	9.860	1.00	23.47	C
ATOM	2681	OG1	THR	A	347	44.872	66.719	8.585	1.00	25.02	O
ATOM	2682	CG2	THR	A	347	44.959	67.578	10.878	1.00	24.08	C
ATOM	2683	N	LEU	A	348	47.242	65.263	7.744	1.00	23.46	N
ATOM	2684	CA	LEU	A	348	47.614	63.996	7.105	1.00	23.86	C
ATOM	2685	C	LEU	A	348	48.882	63.954	6.264	1.00	23.71	C
ATOM	2686	O	LEU	A	348	49.034	63.108	5.384	1.00	23.70	O
ATOM	2687	CB	LEU	A	348	46.418	63.495	6.282	1.00	24.22	C
ATOM	2688	CG	LEU	A	348	45.061	63.626	7.003	1.00	25.29	C
ATOM	2689	CD1	LEU	A	348	43.930	62.969	6.130	1.00	25.70	C
ATOM	2690	CD2	LEU	A	348	45.087	62.963	8.365	1.00	24.34	C
ATOM	2691	N	ALA	A	349	49.798	64.867	6.534	1.00	23.22	N
ATOM	2692	CA	ALA	A	349	51.052	64.909	5.801	1.00	23.24	C
ATOM	2693	C	ALA	A	349	51.767	63.547	5.772	1.00	23.35	C
ATOM	2694	O	ALA	A	349	52.248	63.117	4.726	1.00	23.03	O
ATOM	2695	CB	ALA	A	349	51.970	65.948	6.441	1.00	23.40	C
ATOM	2696	N	GLY	A	350	51.852	62.895	6.937	1.00	23.56	N
ATOM	2697	CA	GLY	A	350	52.521	61.605	7.030	1.00	23.01	C
ATOM	2698	C	GLY	A	350	51.820	60.513	6.241	1.00	22.97	C
ATOM	2699	O	GLY	A	350	52.461	59.729	5.534	1.00	22.66	O
ATOM	2700	N	PHE	A	351	50.501	60.445	6.359	1.00	22.65	N
ATOM	2701	CA	PHE	A	351	49.747	59.436	5.620	1.00	23.39	C
ATOM	2702	C	PHE	A	351	50.046	59.578	4.106	1.00	23.30	C
ATOM	2703	O	PHE	A	351	50.287	58.595	3.402	1.00	23.57	O
ATOM	2704	CB	PHE	A	351	48.243	59.631	5.878	1.00	22.51	C
ATOM	2705	CG	PHE	A	351	47.354	58.858	4.955	1.00	22.05	C
ATOM	2706	CD1	PHE	A	351	47.068	57.509	5.199	1.00	22.95	C
ATOM	2707	CD2	PHE	A	351	46.779	59.490	3.842	1.00	23.10	C
ATOM	2708	CE1	PHE	A	351	46.192	56.782	4.343	1.00	23.70	C
ATOM	2709	CE2	PHE	A	351	45.902	58.786	2.961	1.00	23.51	C
ATOM	2710	CZ	PHE	A	351	45.610	57.428	3.228	1.00	23.62	C
ATOM	2711	N	HIS	A	352	50.015	60.801	3.613	1.00	22.62	N
ATOM	2712	CA	HIS	A	352	50.250	61.011	2.187	1.00	23.07	C
ATOM	2713	C	HIS	A	352	51.708	60.742	1.789	1.00	22.43	C
ATOM	2714	O	HIS	A	352	51.970	60.058	0.792	1.00	22.52	O
ATOM	2715	CB	HIS	A	352	49.788	62.427	1.814	1.00	23.40	C
ATOM	2716	CG	HIS	A	352	48.298	62.543	1.712	1.00	24.03	C
ATOM	2717	ND1	HIS	A	352	47.586	62.011	0.657	1.00	24.06	N
ATOM	2718	CD2	HIS	A	352	47.378	63.102	2.541	1.00	24.32	C
ATOM	2719	CE1	HIS	A	352	46.293	62.237	0.838	1.00	24.84	C
ATOM	2720	NE2	HIS	A	352	46.138	62.897	1.978	1.00	24.77	N
ATOM	2721	N	ALA	A	353	52.659	61.242	2.561	1.00	21.25	N
ATOM	2722	CA	ALA	A	353	54.050	60.977	2.209	1.00	21.68	C
ATOM	2723	C	ALA	A	353	54.329	59.463	2.210	1.00	22.50	C
ATOM	2724	O	ALA	A	353	54.951	58.945	1.287	1.00	22.54	O
ATOM	2725	CB	ALA	A	353	54.973	61.656	3.187	1.00	21.57	C
ATOM	2726	N	LEU	A	354	53.904	58.775	3.275	1.00	21.44	N
ATOM	2727	CA	LEU	A	354	54.109	57.324	3.379	1.00	22.10	C
ATOM	2728	C	LEU	A	354	53.411	56.533	2.273	1.00	22.12	C



ATOM	2729	O	LEU	A	354	54.008	55.665	1.646	1.00	22.38	O
ATOM	2730	CB	LEU	A	354	53.588	56.789	4.727	1.00	20.96	C
ATOM	2731	CG	LEU	A	354	53.791	55.282	5.000	1.00	21.14	C
ATOM	2732	CD1	LEU	A	354	53.869	55.079	6.521	1.00	19.90	C
ATOM	2733	CD2	LEU	A	354	52.637	54.401	4.392	1.00	20.58	C
ATOM	2734	N	ASN	A	355	52.133	56.806	2.059	1.00	21.71	N
ATOM	2735	CA	ASN	A	355	51.417	56.052	1.036	1.00	22.75	C
ATOM	2736	C	ASN	A	355	51.955	56.330	-0.386	1.00	22.91	C
ATOM	2737	O	ASN	A	355	52.149	55.393	-1.195	1.00	21.83	O
ATOM	2738	CB	ASN	A	355	49.902	56.354	1.124	1.00	22.32	C
ATOM	2739	CG	ASN	A	355	49.215	55.515	2.203	1.00	22.43	C
ATOM	2740	OD1	ASN	A	355	48.776	54.387	1.942	1.00	23.53	O
ATOM	2741	ND2	ASN	A	355	49.175	56.027	3.422	1.00	22.37	N
ATOM	2742	N	TYR	A	356	52.181	57.608	-0.682	1.00	23.14	N
ATOM	2743	CA	TYR	A	356	52.662	57.964	-2.017	1.00	24.65	C
ATOM	2744	C	TYR	A	356	54.064	57.422	-2.272	1.00	23.82	C
ATOM	2745	O	TYR	A	356	54.312	56.770	-3.266	1.00	24.32	O
ATOM	2746	CB	TYR	A	356	52.689	59.497	-2.224	1.00	25.31	C
ATOM	2747	CG	TYR	A	356	53.304	59.828	-3.575	1.00	26.88	C
ATOM	2748	CD1	TYR	A	356	52.626	59.517	-4.763	1.00	26.52	C
ATOM	2749	CD2	TYR	A	356	54.616	60.299	-3.664	1.00	27.26	C
ATOM	2750	CE1	TYR	A	356	53.233	59.652	-6.008	1.00	26.77	C
ATOM	2751	CE2	TYR	A	356	55.235	60.438	-4.909	1.00	28.42	C
ATOM	2752	CZ	TYR	A	356	54.526	60.110	-6.072	1.00	27.44	C
ATOM	2753	OH	TYR	A	356	55.112	60.271	-7.301	1.00	28.16	O
ATOM	2754	N	SER	A	357	54.986	57.689	-1.368	1.00	23.69	N
ATOM	2755	CA	SER	A	357	56.340	57.215	-1.629	1.00	24.16	C
ATOM	2756	C	SER	A	357	56.387	55.677	-1.778	1.00	23.99	C
ATOM	2757	O	SER	A	357	57.143	55.159	-2.611	1.00	23.97	O
ATOM	2758	CB	SER	A	357	57.297	57.702	-0.525	1.00	23.38	C
ATOM	2759	OG	SER	A	357	56.967	57.119	0.740	1.00	24.20	O
ATOM	2760	N	MET	A	358	55.590	54.921	-1.008	1.00	24.06	N
ATOM	2761	CA	MET	A	358	55.686	53.477	-1.201	1.00	23.62	C
ATOM	2762	C	MET	A	358	54.978	53.060	-2.497	1.00	24.09	C
ATOM	2763	O	MET	A	358	55.441	52.168	-3.204	1.00	24.13	O
ATOM	2764	CB	MET	A	358	55.158	52.693	0.026	1.00	23.16	C
ATOM	2765	CG	MET	A	358	55.323	51.144	-0.106	1.00	21.95	C
ATOM	2766	SD	MET	A	358	57.035	50.618	-0.531	1.00	23.81	S
ATOM	2767	CE	MET	A	358	57.888	51.083	1.034	1.00	22.31	C
ATOM	2768	N	PHE	A	359	53.865	53.688	-2.838	1.00	24.16	N
ATOM	2769	CA	PHE	A	359	53.236	53.296	-4.103	1.00	25.19	C
ATOM	2770	C	PHE	A	359	54.199	53.530	-5.289	1.00	25.30	C
ATOM	2771	O	PHE	A	359	54.367	52.674	-6.153	1.00	24.83	O
ATOM	2772	CB	PHE	A	359	51.962	54.085	-4.382	1.00	24.97	C
ATOM	2773	CG	PHE	A	359	51.342	53.753	-5.712	1.00	26.20	C
ATOM	2774	CD1	PHE	A	359	50.531	52.628	-5.841	1.00	26.36	C
ATOM	2775	CD2	PHE	A	359	51.657	54.502	-6.861	1.00	26.50	C
ATOM	2776	CE1	PHE	A	359	50.038	52.227	-7.073	1.00	27.15	C
ATOM	2777	CE2	PHE	A	359	51.175	54.113	-8.117	1.00	26.90	C
ATOM	2778	CZ	PHE	A	359	50.355	52.961	-8.230	1.00	26.55	C
ATOM	2779	N	ASP	A	360	54.812	54.707	-5.313	1.00	25.85	N
ATOM	2780	CA	ASP	A	360	55.727	55.076	-6.398	1.00	26.60	C
ATOM	2781	C	ASP	A	360	56.910	54.107	-6.499	1.00	26.51	C
ATOM	2782	O	ASP	A	360	57.222	53.609	-7.578	1.00	25.85	O
ATOM	2783	CB	ASP	A	360	56.227	56.500	-6.188	1.00	26.33	C
ATOM	2784	CG	ASP	A	360	56.984	57.030	-7.394	1.00	27.72	C
ATOM	2785	OD1	ASP	A	360	56.398	57.061	-8.505	1.00	27.04	O
ATOM	2786	OD2	ASP	A	360	58.155	57.411	-7.212	1.00	27.00	O
ATOM	2787	N	LEU	A	361	57.545	53.819	-5.367	1.00	25.54	N
ATOM	2788	CA	LEU	A	361	58.682	52.901	-5.366	1.00	25.84	C
ATOM	2789	C	LEU	A	361	58.223	51.495	-5.765	1.00	25.56	C
ATOM	2790	O	LEU	A	361	58.808	50.875	-6.645	1.00	26.44	O
ATOM	2791	CB	LEU	A	361	59.326	52.860	-3.962	1.00	25.47	C
ATOM	2792	CG	LEU	A	361	60.427	51.809	-3.731	1.00	25.76	C
ATOM	2793	CD1	LEU	A	361	61.669	52.204	-4.554	1.00	26.30	C
ATOM	2794	CD2	LEU	A	361	60.797	51.752	-2.243	1.00	24.60	C
ATOM	2795	N	ALA	A	362	57.162	50.990	-5.135	1.00	25.30	N
ATOM	2796	CA	ALA	A	362	56.678	49.637	-5.453	1.00	25.75	C
ATOM	2797	C	ALA	A	362	56.249	49.504	-6.943	1.00	26.34	C
ATOM	2798	O	ALA	A	362	56.510	48.485	-7.601	1.00	26.18	O
ATOM	2799	CB	ALA	A	362	55.511	49.258	-4.532	1.00	24.44	C
ATOM	2800	N	TYR	A	363	55.599	50.524	-7.473	1.00	26.72	N
ATOM	2801	CA	TYR	A	363	55.149	50.457	-8.867	1.00	27.80	C
ATOM	2802	C	TYR	A	363	56.359	50.347	-9.816	1.00	27.31	C
ATOM	2803	O	TYR	A	363	56.397	49.473	-10.704	1.00	26.85	O
ATOM	2804	CB	TYR	A	363	54.304	51.692	-9.199	1.00	28.55	C
ATOM	2805	CG	TYR	A	363	53.727	51.635	-10.600	1.00	30.87	C
ATOM	2806	CD1	TYR	A	363	54.449	52.122	-11.688	1.00	31.06	C
ATOM	2807	CD2	TYR	A	363	52.474	51.062	-10.837	1.00	31.55	C
ATOM	2808	CE1	TYR	A	363	53.937	52.041	-12.986	1.00	32.81	C



ATOM	2809	CE2	TYR	A	363	51.961	50.974	-12.121	1.00	32.81	C
ATOM	2810	CZ	TYR	A	363	52.704	51.468	-13.185	1.00	33.59	C
ATOM	2811	OH	TYR	A	363	52.212	51.380	-14.463	1.00	35.99	O
ATOM	2812	N	GLY	A	364	57.355	51.203	-9.594	1.00	26.76	N
ATOM	2813	CA	GLY	A	364	58.572	51.160	-10.402	1.00	26.18	C
ATOM	2814	C	GLY	A	364	59.236	49.799	-10.203	1.00	26.60	C
ATOM	2815	O	GLY	A	364	59.679	49.162	-11.168	1.00	26.48	O
ATOM	2816	N	TYR	A	365	59.293	49.330	-8.958	1.00	25.79	N
ATOM	2817	CA	TYR	A	365	59.929	48.040	-8.648	1.00	26.05	C
ATOM	2818	C	TYR	A	365	59.230	46.864	-9.349	1.00	26.19	C
ATOM	2819	O	TYR	A	365	59.883	45.972	-9.865	1.00	26.22	O
ATOM	2820	CB	TYR	A	365	59.916	47.819	-7.125	1.00	25.75	C
ATOM	2821	CG	TYR	A	365	60.701	46.626	-6.626	1.00	25.42	C
ATOM	2822	CD1	TYR	A	365	62.100	46.604	-6.675	1.00	24.59	C
ATOM	2823	CD2	TYR	A	365	60.042	45.556	-6.005	1.00	24.96	C
ATOM	2824	CE1	TYR	A	365	62.827	45.540	-6.093	1.00	25.14	C
ATOM	2825	CE2	TYR	A	365	60.757	44.506	-5.434	1.00	25.15	C
ATOM	2826	CZ	TYR	A	365	62.143	44.507	-5.473	1.00	24.52	C
ATOM	2827	OH	TYR	A	365	62.817	43.501	-4.821	1.00	24.86	O
ATOM	2828	N	ALA	A	366	57.901	46.838	-9.325	1.00	27.29	N
ATOM	2829	CA	ALA	A	366	57.151	45.775	-10.006	1.00	28.70	C
ATOM	2830	C	ALA	A	366	57.493	45.753	-11.498	1.00	30.42	C
ATOM	2831	O	ALA	A	366	57.526	44.690	-12.114	1.00	30.88	O
ATOM	2832	CB	ALA	A	366	55.651	45.994	-9.860	1.00	27.44	C
ATOM	2833	N	GLN	A	367	57.726	46.932	-12.059	1.00	31.52	N
ATOM	2834	CA	GLN	A	367	58.028	47.074	-13.474	1.00	33.68	C
ATOM	2835	C	GLN	A	367	59.485	46.841	-13.841	1.00	33.84	C
ATOM	2836	O	GLN	A	367	59.769	46.051	-14.733	1.00	33.25	O
ATOM	2837	CB	GLN	A	367	57.685	48.481	-13.982	1.00	35.74	C
ATOM	2838	CG	GLN	A	367	56.268	48.971	-13.697	1.00	39.65	C
ATOM	2839	CD	GLN	A	367	55.235	48.040	-14.262	1.00	41.78	C
ATOM	2840	OE1	GLN	A	367	55.201	47.796	-15.467	1.00	43.70	O
ATOM	2841	NE2	GLN	A	367	54.394	47.491	-13.392	1.00	43.70	N
ATOM	2842	N	ASN	A	368	60.385	47.528	-13.136	1.00	33.23	N
ATOM	2843	CA	ASN	A	368	61.814	47.507	-13.445	1.00	33.24	C
ATOM	2844	C	ASN	A	368	62.780	47.133	-12.329	1.00	32.11	C
ATOM	2845	O	ASN	A	368	63.953	47.463	-12.391	1.00	31.05	O
ATOM	2846	CB	ASN	A	368	62.199	48.880	-13.975	1.00	34.39	C
ATOM	2847	CG	ASN	A	368	61.343	49.295	-15.152	1.00	36.55	C
ATOM	2848	OD1	ASN	A	368	60.646	50.321	-15.100	1.00	37.81	O
ATOM	2849	ND2	ASN	A	368	61.388	48.501	-16.225	1.00	36.50	N
ATOM	2850	N	GLN	A	369	62.278	46.465	-11.304	1.00	31.07	N
ATOM	2851	CA	GLN	A	369	63.124	46.054	-10.194	1.00	30.20	C
ATOM	2852	C	GLN	A	369	64.149	47.055	-9.650	1.00	29.07	C
ATOM	2853	O	GLN	A	369	63.797	48.177	-9.269	1.00	27.95	O
ATOM	2854	CB	GLN	A	369	63.802	44.721	-10.534	1.00	31.00	C
ATOM	2855	CG	GLN	A	369	62.795	43.602	-10.801	1.00	31.17	C
ATOM	2856	CD	GLN	A	369	62.422	43.518	-12.264	1.00	33.13	C
ATOM	2857	OE1	GLN	A	369	63.310	43.435	-13.119	1.00	33.17	O
ATOM	2858	NE2	GLN	A	369	61.107	43.530	-12.571	1.00	31.93	N
ATOM	2859	N	MET	A	370	65.424	46.682	-9.612	1.00	28.40	N
ATOM	2860	CA	MET	A	370	66.391	47.588	-9.001	1.00	27.71	C
ATOM	2861	C	MET	A	370	66.487	49.017	-9.546	1.00	27.91	C
ATOM	2862	O	MET	A	370	66.886	49.921	-8.813	1.00	27.61	O
ATOM	2863	CB	MET	A	370	67.777	46.942	-8.966	1.00	27.86	C
ATOM	2864	CG	MET	A	370	67.897	45.708	-8.072	1.00	27.44	C
ATOM	2865	SD	MET	A	370	67.197	45.897	-6.392	1.00	27.87	S
ATOM	2866	CE	MET	A	370	68.245	47.241	-5.710	1.00	26.82	C
ATOM	2867	N	SER	A	371	66.106	49.230	-10.808	1.00	27.87	N
ATOM	2868	CA	SER	A	371	66.155	50.551	-11.414	1.00	28.79	C
ATOM	2869	C	SER	A	371	65.310	51.543	-10.633	1.00	28.87	C
ATOM	2870	O	SER	A	371	65.693	52.707	-10.477	1.00	28.97	O
ATOM	2871	CB	SER	A	371	65.647	50.507	-12.869	1.00	29.51	C
ATOM	2872	OG	SER	A	371	66.435	49.643	-13.656	1.00	31.13	O
ATOM	2873	N	ALA	A	372	64.161	51.075	-10.143	1.00	27.61	N
ATOM	2874	CA	ALA	A	372	63.250	51.910	-9.384	1.00	27.60	C
ATOM	2875	C	ALA	A	372	63.858	52.303	-8.036	1.00	28.01	C
ATOM	2876	O	ALA	A	372	63.762	53.466	-7.613	1.00	28.63	O
ATOM	2877	CB	ALA	A	372	61.924	51.156	-9.177	1.00	27.10	C
ATOM	2878	N	TYR	A	373	64.481	51.343	-7.355	1.00	27.81	N
ATOM	2879	CA	TYR	A	373	65.100	51.639	-6.067	1.00	28.49	C
ATOM	2880	C	TYR	A	373	66.241	52.644	-6.215	1.00	28.88	C
ATOM	2881	O	TYR	A	373	66.419	53.535	-5.378	1.00	28.30	O
ATOM	2882	CB	TYR	A	373	65.660	50.372	-5.405	1.00	28.44	C
ATOM	2883	CG	TYR	A	373	66.269	50.659	-4.058	1.00	28.34	C
ATOM	2884	CD1	TYR	A	373	65.467	51.024	-2.979	1.00	28.19	C
ATOM	2885	CD2	TYR	A	373	67.670	50.632	-3.876	1.00	28.68	C
ATOM	2886	CE1	TYR	A	373	66.022	51.364	-1.759	1.00	28.25	C
ATOM	2887	CE2	TYR	A	373	68.247	50.961	-2.653	1.00	28.02	C
ATOM	2888	CZ	TYR	A	373	67.410	51.329	-1.597	1.00	29.09	C



ATOM	2889	OH	TYR	A	373	67.937	51.662	-0.378	1.00	28.12	O
ATOM	2890	N	VAL	A	374	67.038	52.478	-7.270	1.00	29.57	N
ATOM	2891	CA	VAL	A	374	68.167	53.376	-7.513	1.00	29.77	C
ATOM	2892	C	VAL	A	374	67.664	54.808	-7.641	1.00	30.22	C
ATOM	2893	O	VAL	A	374	68.318	55.732	-7.173	1.00	30.32	O
ATOM	2894	CB	VAL	A	374	68.957	52.895	-8.774	1.00	31.08	C
ATOM	2895	CG1	VAL	A	374	69.961	53.965	-9.246	1.00	31.95	C
ATOM	2896	CG2	VAL	A	374	69.685	51.590	-8.419	1.00	30.49	C
ATOM	2897	N	GLU	A	375	66.484	55.006	-8.238	1.00	30.58	N
ATOM	2898	CA	GLU	A	375	65.938	56.355	-8.356	1.00	31.63	C
ATOM	2899	C	GLU	A	375	65.702	56.997	-6.986	1.00	30.64	C
ATOM	2900	O	GLU	A	375	65.962	58.183	-6.788	1.00	29.94	O
ATOM	2901	CB	GLU	A	375	64.629	56.353	-9.157	1.00	34.44	C
ATOM	2902	CG	GLU	A	375	64.873	56.452	-10.655	1.00	39.53	C
ATOM	2903	CD	GLU	A	375	63.603	56.354	-11.498	1.00	42.96	C
ATOM	2904	OE1	GLU	A	375	62.583	57.001	-11.131	1.00	44.78	O
ATOM	2905	OE2	GLU	A	375	63.629	55.638	-12.546	1.00	45.34	O
ATOM	2906	N	LEU	A	376	65.197	56.222	-6.035	1.00	29.15	N
ATOM	2907	CA	LEU	A	376	64.967	56.754	-4.700	1.00	28.21	C
ATOM	2908	C	LEU	A	376	66.325	56.976	-4.014	1.00	28.10	C
ATOM	2909	O	LEU	A	376	66.538	57.978	-3.345	1.00	27.89	O
ATOM	2910	CB	LEU	A	376	64.134	55.765	-3.868	1.00	27.52	C
ATOM	2911	CG	LEU	A	376	64.112	56.008	-2.348	1.00	26.99	C
ATOM	2912	CD1	LEU	A	376	63.563	57.393	-2.028	1.00	27.55	C
ATOM	2913	CD2	LEU	A	376	63.238	54.911	-1.705	1.00	25.94	C
ATOM	2914	N	GLN	A	377	67.240	56.030	-4.171	1.00	27.91	N
ATOM	2915	CA	GLN	A	377	68.540	56.174	-3.528	1.00	28.76	C
ATOM	2916	C	GLN	A	377	69.260	57.454	-4.004	1.00	28.84	C
ATOM	2917	O	GLN	A	377	69.875	58.162	-3.209	1.00	28.53	O
ATOM	2918	CB	GLN	A	377	69.400	54.937	-3.804	1.00	29.18	C
ATOM	2919	CG	GLN	A	377	70.697	54.988	-3.070	1.00	31.14	C
ATOM	2920	CD	GLN	A	377	71.491	53.707	-3.194	1.00	32.86	C
ATOM	2921	OE1	GLN	A	377	71.782	53.022	-2.176	1.00	33.83	O
ATOM	2922	NE2	GLN	A	377	71.847	53.356	-4.425	1.00	31.45	N
ATOM	2923	N	GLU	A	378	69.170	57.747	-5.300	1.00	29.44	N
ATOM	2924	CA	GLU	A	378	69.808	58.946	-5.836	1.00	30.75	C
ATOM	2925	C	GLU	A	378	69.187	60.182	-5.209	1.00	30.87	C
ATOM	2926	O	GLU	A	378	69.892	61.151	-4.915	1.00	30.91	O
ATOM	2927	CB	GLU	A	378	69.695	58.988	-7.372	1.00	31.47	C
ATOM	2928	CG	GLU	A	378	70.584	57.967	-8.055	1.00	33.84	C
ATOM	2929	CD	GLU	A	378	72.082	58.193	-7.719	1.00	36.39	C
ATOM	2930	OE1	GLU	A	378	72.582	59.331	-7.969	1.00	38.04	O
ATOM	2931	OE2	GLU	A	378	72.747	57.258	-7.199	1.00	36.20	O
ATOM	2932	N	ARG	A	379	67.870	60.183	-4.998	1.00	30.83	N
ATOM	2933	CA	ARG	A	379	67.261	61.359	-4.363	1.00	31.25	C
ATOM	2934	C	ARG	A	379	67.772	61.511	-2.938	1.00	30.60	C
ATOM	2935	O	ARG	A	379	67.959	62.627	-2.458	1.00	30.53	O
ATOM	2936	CB	ARG	A	379	65.742	61.257	-4.333	1.00	32.56	C
ATOM	2937	CG	ARG	A	379	65.097	61.358	-5.694	1.00	35.39	C
ATOM	2938	CD	ARG	A	379	63.593	61.300	-5.537	1.00	39.28	C
ATOM	2939	NE	ARG	A	379	63.021	60.583	-6.667	1.00	42.85	N
ATOM	2940	CZ	ARG	A	379	62.259	59.497	-6.563	1.00	43.70	C
ATOM	2941	NH1	ARG	A	379	61.946	58.969	-5.355	1.00	42.64	N
ATOM	2942	NH2	ARG	A	379	61.815	58.934	-7.684	1.00	45.23	N
ATOM	2943	N	GLU	A	380	67.989	60.388	-2.257	1.00	30.05	N
ATOM	2944	CA	GLU	A	380	68.490	60.429	-0.882	1.00	29.26	C
ATOM	2945	C	GLU	A	380	69.922	60.955	-0.869	1.00	29.27	C
ATOM	2946	O	GLU	A	380	70.294	61.752	-0.012	1.00	29.39	O
ATOM	2947	CB	GLU	A	380	68.444	59.028	-0.237	1.00	28.58	C
ATOM	2948	CG	GLU	A	380	67.034	58.589	0.175	1.00	28.36	C
ATOM	2949	CD	GLU	A	380	67.030	57.203	0.829	1.00	29.01	C
ATOM	2950	OE1	GLU	A	380	67.074	56.195	0.074	1.00	28.84	O
ATOM	2951	OE2	GLU	A	380	66.990	57.135	2.088	1.00	27.48	O
ATOM	2952	N	PHE	A	381	70.738	60.507	-1.808	1.00	29.56	N
ATOM	2953	CA	PHE	A	381	72.112	61.005	-1.846	1.00	30.34	C
ATOM	2954	C	PHE	A	381	72.073	62.518	-2.061	1.00	30.13	C
ATOM	2955	O	PHE	A	381	72.812	63.250	-1.419	1.00	29.30	O
ATOM	2956	CB	PHE	A	381	72.927	60.356	-2.983	1.00	30.89	C
ATOM	2957	CG	PHE	A	381	73.248	58.901	-2.768	1.00	31.54	C
ATOM	2958	CD1	PHE	A	381	73.315	58.362	-1.497	1.00	31.69	C
ATOM	2959	CD2	PHE	A	381	73.514	58.067	-3.864	1.00	32.12	C
ATOM	2960	CE1	PHE	A	381	73.638	57.007	-1.314	1.00	32.53	C
ATOM	2961	CE2	PHE	A	381	73.835	56.721	-3.691	1.00	31.33	C
ATOM	2962	CZ	PHE	A	381	73.899	56.184	-2.434	1.00	31.45	C
ATOM	2963	N	ALA	A	382	71.183	62.981	-2.937	1.00	30.04	N
ATOM	2964	CA	ALA	A	382	71.098	64.408	-3.190	1.00	30.51	C
ATOM	2965	C	ALA	A	382	70.621	65.173	-1.962	1.00	30.79	C
ATOM	2966	O	ALA	A	382	71.052	66.312	-1.727	1.00	30.61	O
ATOM	2967	CB	ALA	A	382	70.183	64.694	-4.370	1.00	30.01	C
ATOM	2968	N	ALA	A	383	69.745	64.560	-1.162	1.00	30.26	N



T O T A L = 3 6 6 0

ATOM	2969	CA	ALA	A	383	69.223	65.248	0.022	1.00	29.71	C
ATOM	2970	C	ALA	A	383	70.261	65.410	1.144	1.00	29.75	C
ATOM	2971	O	ALA	A	383	70.060	66.171	2.091	1.00	28.38	O
ATOM	2972	CB	ALA	A	383	67.988	64.495	0.546	1.00	29.81	C
ATOM	2973	N	GLU	A	384	71.366	64.675	1.064	1.00	31.03	N
ATOM	2974	CA	GLU	A	384	72.395	64.811	2.112	1.00	33.45	C
ATOM	2975	C	GLU	A	384	72.893	66.272	2.136	1.00	34.36	C
ATOM	2976	O	GLU	A	384	73.295	66.806	3.179	1.00	33.74	O
ATOM	2977	CB	GLU	A	384	73.559	63.843	1.880	1.00	34.11	C
ATOM	2978	CG	GLU	A	384	73.176	62.342	1.981	1.00	35.75	C
ATOM	2979	CD	GLU	A	384	74.349	61.428	1.651	1.00	36.77	C
ATOM	2980	OE1	GLU	A	384	75.379	61.948	1.203	1.00	38.21	O
ATOM	2981	OE2	GLU	A	384	74.275	60.197	1.823	1.00	37.83	O
ATOM	2982	N	GLU	A	385	72.809	66.917	0.983	1.00	35.54	N
ATOM	2983	CA	GLU	A	385	73.220	68.298	0.853	1.00	37.71	C
ATOM	2984	C	GLU	A	385	72.353	69.181	1.739	1.00	37.00	C
ATOM	2985	O	GLU	A	385	72.826	70.190	2.252	1.00	36.68	O
ATOM	2986	CB	GLU	A	385	73.067	68.733	-0.597	1.00	40.13	C
ATOM	2987	CG	GLU	A	385	73.917	69.904	-0.979	1.00	45.00	C
ATOM	2988	CD	GLU	A	385	73.550	70.416	-2.373	1.00	47.41	C
ATOM	2989	OE1	GLU	A	385	73.445	69.586	-3.312	1.00	49.03	O
ATOM	2990	OE2	GLU	A	385	73.359	71.645	-2.526	1.00	49.08	O
ATOM	2991	N	ARG	A	386	71.086	68.798	1.919	1.00	35.94	N
ATOM	2992	CA	ARG	A	386	70.168	69.575	2.742	1.00	35.21	C
ATOM	2993	C	ARG	A	386	70.205	69.137	4.191	1.00	34.16	C
ATOM	2994	O	ARG	A	386	69.451	69.655	4.996	1.00	34.38	O
ATOM	2995	CB	ARG	A	386	68.728	69.485	2.222	1.00	36.33	C
ATOM	2996	CG	ARG	A	386	68.519	70.164	0.880	1.00	39.04	C
ATOM	2997	CD	ARG	A	386	67.097	70.015	0.298	1.00	41.44	C
ATOM	2998	NE	ARG	A	386	66.726	68.613	0.043	1.00	44.87	N
ATOM	2999	CZ	ARG	A	386	65.476	68.193	-0.222	1.00	45.47	C
ATOM	3000	NH1	ARG	A	386	64.490	69.090	-0.276	1.00	45.73	N
ATOM	3001	NH2	ARG	A	386	65.197	66.883	-0.378	1.00	44.52	N
ATOM	3002	N	GLY	A	387	71.081	68.194	4.520	1.00	33.00	N
ATOM	3003	CA	GLY	A	387	71.189	67.719	5.893	1.00	32.01	C
ATOM	3004	C	GLY	A	387	70.641	66.310	6.133	1.00	31.32	C
ATOM	3005	O	GLY	A	387	70.767	65.767	7.221	1.00	31.15	O
ATOM	3006	N	TYR	A	388	70.038	65.709	5.121	1.00	30.24	N
ATOM	3007	CA	TYR	A	388	69.498	64.360	5.287	1.00	29.34	C
ATOM	3008	C	TYR	A	388	70.600	63.399	5.698	1.00	29.19	C
ATOM	3009	O	TYR	A	388	71.681	63.402	5.087	1.00	29.34	O
ATOM	3010	CB	TYR	A	388	68.893	63.887	3.980	1.00	28.45	C
ATOM	3011	CG	TYR	A	388	68.220	62.524	4.059	1.00	27.50	C
ATOM	3012	CD1	TYR	A	388	67.009	62.354	4.757	1.00	27.72	C
ATOM	3013	CD2	TYR	A	388	68.718	61.439	3.331	1.00	27.21	C
ATOM	3014	CE1	TYR	A	388	66.305	61.135	4.699	1.00	25.73	C
ATOM	3015	CE2	TYR	A	388	68.021	60.218	3.270	1.00	26.68	C
ATOM	3016	CZ	TYR	A	388	66.805	60.084	3.959	1.00	26.90	C
ATOM	3017	OH	TYR	A	388	66.089	58.888	3.863	1.00	26.34	O
ATOM	3018	N	THR	A	389	70.337	62.563	6.710	1.00	28.23	N
ATOM	3019	CA	THR	A	389	71.339	61.604	7.172	1.00	27.98	C
ATOM	3020	C	THR	A	389	70.954	60.112	7.088	1.00	27.68	C
ATOM	3021	O	THR	A	389	71.801	59.243	7.301	1.00	27.24	O
ATOM	3022	CB	THR	A	389	71.726	61.866	8.664	1.00	28.59	C
ATOM	3023	OG1	THR	A	389	70.548	61.841	9.491	1.00	28.52	O
ATOM	3024	CG2	THR	A	389	72.433	63.242	8.827	1.00	28.80	C
ATOM	3025	N	ALA	A	390	69.699	59.802	6.770	1.00	28.10	N
ATOM	3026	CA	ALA	A	390	69.260	58.383	6.815	1.00	28.02	C
ATOM	3027	C	ALA	A	390	69.919	57.429	5.829	1.00	28.39	C
ATOM	3028	O	ALA	A	390	69.738	56.205	5.917	1.00	28.27	O
ATOM	3029	CB	ALA	A	390	67.714	58.302	6.749	1.00	27.44	C
ATOM	3030	N	THR	A	391	70.693	57.972	4.883	1.00	28.92	N
ATOM	3031	CA	THR	A	391	71.454	57.130	3.956	1.00	29.63	C
ATOM	3032	C	THR	A	391	72.515	56.388	4.784	1.00	30.22	C
ATOM	3033	O	THR	A	391	73.021	55.357	4.361	1.00	31.36	O
ATOM	3034	CB	THR	A	391	72.196	57.968	2.869	1.00	30.27	C
ATOM	3035	OG1	THR	A	391	72.897	59.036	3.514	1.00	32.00	O
ATOM	3036	CG2	THR	A	391	71.230	58.537	1.870	1.00	29.92	C
ATOM	3037	N	LYS	A	392	72.909	56.927	5.937	1.00	29.83	N
ATOM	3038	CA	LYS	A	392	73.832	56.190	6.795	1.00	30.81	C
ATOM	3039	C	LYS	A	392	72.822	55.520	7.762	1.00	29.91	C
ATOM	3040	O	LYS	A	392	72.567	55.997	8.865	1.00	28.54	O
ATOM	3041	CB	LYS	A	392	74.787	57.160	7.490	1.00	32.48	C
ATOM	3042	CG	LYS	A	392	75.842	57.666	6.474	1.00	36.53	C
ATOM	3043	CD	LYS	A	392	76.775	58.689	7.088	1.00	40.01	C
ATOM	3044	CE	LYS	A	392	77.761	59.232	6.032	1.00	42.34	C
ATOM	3045	NZ	LYS	A	392	78.358	60.546	6.508	1.00	44.43	N
ATOM	3046	N	HIS	A	393	72.235	54.425	7.276	1.00	29.19	N
ATOM	3047	CA	HIS	A	393	71.173	53.727	7.987	1.00	28.59	C
ATOM	3048	C	HIS	A	393	71.507	53.164	9.355	1.00	27.70	C



ATOM	3049	O	HIS	A	393	70.698	53.291	10.283	1.00	27.40	O
ATOM	3050	CB	HIS	A	393	70.575	52.643	7.062	1.00	29.56	C
ATOM	3051	CG	HIS	A	393	71.520	51.522	6.742	1.00	30.75	C
ATOM	3052	ND1	HIS	A	393	72.751	51.722	6.148	1.00	31.19	N
ATOM	3053	CD2	HIS	A	393	71.414	50.185	6.945	1.00	30.83	C
ATOM	3054	CE1	HIS	A	393	73.359	50.553	5.998	1.00	32.00	C
ATOM	3055	NE2	HIS	A	393	72.568	49.605	6.473	1.00	30.52	N
ATOM	3056	N	GLN	A	394	72.672	52.546	9.502	1.00	26.77	N
ATOM	3057	CA	GLN	A	394	73.046	51.981	10.800	1.00	27.11	C
ATOM	3058	C	GLN	A	394	73.166	53.100	11.847	1.00	27.13	C
ATOM	3059	O	GLN	A	394	72.645	53.009	12.963	1.00	27.18	O
ATOM	3060	CB	GLN	A	394	74.377	51.228	10.665	1.00	28.40	C
ATOM	3061	CG	GLN	A	394	74.316	50.066	9.648	1.00	30.00	C
ATOM	3062	CD	GLN	A	394	73.462	48.867	10.124	1.00	32.13	C
ATOM	3063	OE1	GLN	A	394	72.332	49.012	10.597	1.00	31.25	O
ATOM	3064	NE2	GLN	A	394	74.011	47.665	9.957	1.00	34.96	N
ATOM	3065	N	ARG	A	395	73.852	54.172	11.466	1.00	26.53	N
ATOM	3066	CA	ARG	A	395	74.024	55.315	12.347	1.00	26.45	C
ATOM	3067	C	ARG	A	395	72.658	55.919	12.738	1.00	25.49	C
ATOM	3068	O	ARG	A	395	72.439	56.270	13.890	1.00	25.40	O
ATOM	3069	CB	ARG	A	395	74.836	56.384	11.608	1.00	28.74	C
ATOM	3070	CG	ARG	A	395	74.897	57.735	12.297	1.00	32.16	C
ATOM	3071	CD	ARG	A	395	75.545	58.764	11.331	1.00	35.42	C
ATOM	3072	NE	ARG	A	395	75.711	60.039	12.010	1.00	37.19	N
ATOM	3073	CZ	ARG	A	395	74.706	60.849	12.336	1.00	38.48	C
ATOM	3074	NH1	ARG	A	395	73.438	60.533	12.029	1.00	38.57	N
ATOM	3075	NH2	ARG	A	395	74.971	61.960	13.018	1.00	39.03	N
ATOM	3076	N	GLU	A	396	71.774	56.052	11.744	1.00	24.35	N
ATOM	3077	CA	GLU	A	396	70.455	56.662	11.922	1.00	24.00	C
ATOM	3078	C	GLU	A	396	69.606	55.998	13.012	1.00	23.34	C
ATOM	3079	O	GLU	A	396	68.835	56.677	13.680	1.00	22.51	O
ATOM	3080	CB	GLU	A	396	69.675	56.640	10.596	1.00	23.41	C
ATOM	3081	CG	GLU	A	396	68.359	57.490	10.601	1.00	23.24	C
ATOM	3082	CD	GLU	A	396	68.632	58.978	10.493	1.00	24.78	C
ATOM	3083	OE1	GLU	A	396	69.754	59.343	10.079	1.00	23.30	O
ATOM	3084	OE2	GLU	A	396	67.728	59.785	10.810	1.00	25.33	O
ATOM	3085	N	VAL	A	397	69.753	54.682	13.178	1.00	22.98	N
ATOM	3086	CA	VAL	A	397	68.968	53.986	14.187	1.00	23.28	C
ATOM	3087	C	VAL	A	397	69.749	53.689	15.466	1.00	24.04	C
ATOM	3088	O	VAL	A	397	69.286	52.900	16.311	1.00	24.21	O
ATOM	3089	CB	VAL	A	397	68.330	52.657	13.625	1.00	23.07	C
ATOM	3090	CG1	VAL	A	397	67.326	52.994	12.491	1.00	22.37	C
ATOM	3091	CG2	VAL	A	397	69.413	51.701	13.127	1.00	23.32	C
ATOM	3092	N	GLY	A	398	70.931	54.301	15.608	1.00	23.66	N
ATOM	3093	CA	GLY	A	398	71.703	54.133	16.838	1.00	23.83	C
ATOM	3094	C	GLY	A	398	72.782	53.065	16.940	1.00	24.32	C
ATOM	3095	O	GLY	A	398	73.240	52.759	18.057	1.00	24.73	O
ATOM	3096	N	ALA	A	399	73.200	52.473	15.827	1.00	24.57	N
ATOM	3097	CA	ALA	A	399	74.246	51.456	15.936	1.00	25.19	C
ATOM	3098	C	ALA	A	399	75.491	52.019	16.629	1.00	25.72	C
ATOM	3099	O	ALA	A	399	76.146	51.307	17.380	1.00	26.50	O
ATOM	3100	CB	ALA	A	399	74.637	50.897	14.552	1.00	24.62	C
ATOM	3101	N	GLY	A	400	75.798	53.298	16.391	1.00	25.95	N
ATOM	3102	CA	GLY	A	400	76.976	53.895	17.009	1.00	25.97	C
ATOM	3103	C	GLY	A	400	76.769	54.165	18.484	1.00	26.19	C
ATOM	3104	O	GLY	A	400	77.696	54.065	19.295	1.00	26.03	O
ATOM	3105	N	TYR	A	401	75.538	54.492	18.846	1.00	25.07	N
ATOM	3106	CA	TYR	A	401	75.211	54.745	20.228	1.00	25.10	C
ATOM	3107	C	TYR	A	401	75.312	53.422	20.983	1.00	25.20	C
ATOM	3108	O	TYR	A	401	75.941	53.360	22.043	1.00	25.74	O
ATOM	3109	CB	TYR	A	401	73.785	55.342	20.327	1.00	24.75	C
ATOM	3110	CG	TYR	A	401	73.354	55.686	21.729	1.00	24.74	C
ATOM	3111	CD1	TYR	A	401	73.895	56.803	22.402	1.00	24.38	C
ATOM	3112	CD2	TYR	A	401	72.442	54.869	22.419	1.00	24.58	C
ATOM	3113	CE1	TYR	A	401	73.548	57.098	23.722	1.00	23.53	C
ATOM	3114	CE2	TYR	A	401	72.093	55.144	23.726	1.00	24.20	C
ATOM	3115	CZ	TYR	A	401	72.649	56.256	24.385	1.00	25.31	C
ATOM	3116	OH	TYR	A	401	72.364	56.479	25.717	1.00	24.27	O
ATOM	3117	N	PHE	A	402	74.732	52.340	20.451	1.00	25.67	N
ATOM	3118	CA	PHE	A	402	74.829	51.085	21.195	1.00	26.08	C
ATOM	3119	C	PHE	A	402	76.253	50.523	21.188	1.00	26.81	C
ATOM	3120	O	PHE	A	402	76.668	49.880	22.157	1.00	26.99	O
ATOM	3121	CB	PHE	A	402	73.793	50.055	20.707	1.00	25.46	C
ATOM	3122	CG	PHE	A	402	72.393	50.364	21.204	1.00	25.66	C
ATOM	3123	CD1	PHE	A	402	71.600	51.299	20.559	1.00	25.22	C
ATOM	3124	CD2	PHE	A	402	71.924	49.810	22.398	1.00	25.24	C
ATOM	3125	CE1	PHE	A	402	70.324	51.696	21.108	1.00	24.48	C
ATOM	3126	CE2	PHE	A	402	70.683	50.202	22.944	1.00	24.76	C
ATOM	3127	CZ	PHE	A	402	69.888	51.153	22.281	1.00	23.91	C
ATOM	3128	N	ASP	A	403	77.007	50.765	20.123	1.00	27.79	N



ATOM	3129	CA	ASP	A	403	78.413	50.318	20.123	1.00	29.18	C
ATOM	3130	C	ASP	A	403	79.111	51.048	21.270	1.00	28.39	C
ATOM	3131	O	ASP	A	403	79.947	50.492	21.956	1.00	29.36	O
ATOM	3132	CB	ASP	A	403	79.110	50.648	18.797	1.00	31.77	C
ATOM	3133	CG	ASP	A	403	78.740	49.666	17.686	1.00	35.72	C
ATOM	3134	OD1	ASP	A	403	78.155	48.576	17.986	1.00	38.47	O
ATOM	3135	OD2	ASP	A	403	79.036	49.957	16.495	1.00	38.40	O
ATOM	3136	N	ARG	A	404	78.750	52.296	21.513	1.00	29.23	N
ATOM	3137	CA	ARG	A	404	79.389	53.008	22.608	1.00	29.04	C
ATOM	3138	C	ARG	A	404	78.988	52.412	23.958	1.00	29.10	C
ATOM	3139	O	ARG	A	404	79.826	52.292	24.879	1.00	28.14	O
ATOM	3140	CB	ARG	A	404	79.053	54.497	22.603	1.00	30.36	C
ATOM	3141	CG	ARG	A	404	79.680	55.159	23.824	1.00	33.89	C
ATOM	3142	CD	ARG	A	404	79.354	56.609	23.991	1.00	37.12	C
ATOM	3143	NE	ARG	A	404	80.310	57.417	23.262	1.00	40.79	N
ATOM	3144	CZ	ARG	A	404	81.426	57.946	23.755	1.00	41.13	C
ATOM	3145	NH1	ARG	A	404	81.802	57.788	25.034	1.00	40.91	N
ATOM	3146	NH2	ARG	A	404	82.161	58.658	22.931	1.00	42.11	N
ATOM	3147	N	ILE	A	405	77.703	52.071	24.115	1.00	28.28	N
ATOM	3148	CA	ILE	A	405	77.281	51.455	25.382	1.00	27.68	C
ATOM	3149	C	ILE	A	405	78.086	50.147	25.553	1.00	27.73	C
ATOM	3150	O	ILE	A	405	78.598	49.847	26.643	1.00	28.31	O
ATOM	3151	CB	ILE	A	405	75.730	51.106	25.374	1.00	26.97	C
ATOM	3152	CG1	ILE	A	405	74.895	52.383	25.470	1.00	26.02	C
ATOM	3153	CG2	ILE	A	405	75.411	50.152	26.521	1.00	26.99	C
ATOM	3154	CD1	ILE	A	405	73.365	52.175	25.175	1.00	27.45	C
ATOM	3155	N	ALA	A	406	78.227	49.392	24.470	1.00	27.73	N
ATOM	3156	CA	ALA	A	406	78.940	48.124	24.541	1.00	28.81	C
ATOM	3157	C	ALA	A	406	80.385	48.330	24.983	1.00	30.42	C
ATOM	3158	O	ALA	A	406	80.955	47.540	25.780	1.00	30.13	O
ATOM	3159	CB	ALA	A	406	78.925	47.442	23.205	1.00	27.92	C
ATOM	3160	N	THR	A	407	80.987	49.371	24.429	1.00	30.80	N
ATOM	3161	CA	THR	A	407	82.378	49.695	24.739	1.00	32.16	C
ATOM	3162	C	THR	A	407	82.540	50.243	26.139	1.00	32.06	C
ATOM	3163	O	THR	A	407	83.558	50.007	26.798	1.00	32.40	O
ATOM	3164	CB	THR	A	407	82.909	50.695	23.711	1.00	31.89	C
ATOM	3165	OG1	THR	A	407	82.889	50.054	22.425	1.00	35.15	O
ATOM	3166	CG2	THR	A	407	84.326	51.061	24.029	1.00	34.45	C
ATOM	3167	N	THR	A	408	81.529	50.973	26.597	1.00	31.53	N
ATOM	3168	CA	THR	A	408	81.555	51.535	27.938	1.00	31.93	C
ATOM	3169	C	THR	A	408	81.513	50.389	28.951	1.00	32.97	C
ATOM	3170	O	THR	A	408	82.197	50.410	29.982	1.00	32.68	O
ATOM	3171	CB	THR	A	408	80.345	52.489	28.155	1.00	31.44	C
ATOM	3172	OG1	THR	A	408	80.443	53.585	27.232	1.00	32.02	O
ATOM	3173	CG2	THR	A	408	80.329	53.054	29.565	1.00	30.84	C
ATOM	3174	N	VAL	A	409	80.715	49.375	28.655	1.00	33.52	N
ATOM	3175	CA	VAL	A	409	80.577	48.232	29.544	1.00	35.02	C
ATOM	3176	C	VAL	A	409	81.819	47.336	29.543	1.00	37.10	C
ATOM	3177	O	VAL	A	409	82.156	46.724	30.568	1.00	37.11	O
ATOM	3178	CB	VAL	A	409	79.343	47.389	29.149	1.00	34.65	C
ATOM	3179	CG1	VAL	A	409	79.411	46.016	29.785	1.00	34.75	C
ATOM	3180	CG2	VAL	A	409	78.081	48.102	29.591	1.00	34.44	C
ATOM	3181	N	ASP	A	410	82.483	47.248	28.390	1.00	39.09	N
ATOM	3182	CA	ASP	A	410	83.676	46.419	28.256	1.00	41.85	C
ATOM	3183	C	ASP	A	410	84.883	47.146	28.860	1.00	43.52	C
ATOM	3184	O	ASP	A	410	85.329	48.188	28.343	1.00	43.77	O
ATOM	3185	CB	ASP	A	410	83.961	46.130	26.789	1.00	42.44	C
ATOM	3186	CG	ASP	A	410	85.055	45.092	26.601	1.00	44.97	C
ATOM	3187	OD1	ASP	A	410	85.913	44.916	27.513	1.00	45.46	O
ATOM	3188	OD2	ASP	A	410	85.063	44.453	25.522	1.00	46.32	O
ATOM	3189	N	PRO	A	411	85.435	46.603	29.956	1.00	45.26	N
ATOM	3190	CA	PRO	A	411	86.594	47.252	30.590	1.00	47.07	C
ATOM	3191	C	PRO	A	411	87.893	47.148	29.753	1.00	48.95	C
ATOM	3192	O	PRO	A	411	88.824	47.942	29.931	1.00	49.22	O
ATOM	3193	CB	PRO	A	411	86.679	46.539	31.948	1.00	46.09	C
ATOM	3194	CG	PRO	A	411	86.216	45.133	31.606	1.00	45.76	C
ATOM	3195	CD	PRO	A	411	85.027	45.387	30.693	1.00	45.07	C
ATOM	3196	N	ASN	A	412	87.946	46.177	28.843	1.00	50.67	N
ATOM	3197	CA	ASN	A	412	89.114	46.007	27.987	1.00	53.19	C
ATOM	3198	C	ASN	A	412	88.933	46.818	26.693	1.00	54.90	C
ATOM	3199	O	ASN	A	412	89.632	46.609	25.689	1.00	55.37	O
ATOM	3200	CB	ASN	A	412	89.310	44.526	27.683	1.00	53.31	C
ATOM	3201	CG	ASN	A	412	89.666	43.734	28.927	1.00	54.08	C
ATOM	3202	OD1	ASN	A	412	89.526	42.512	28.958	1.00	55.40	O
ATOM	3203	ND2	ASN	A	412	90.142	44.427	29.958	1.00	54.07	N
ATOM	3204	N	SER	A	413	87.981	47.749	26.729	1.00	56.35	N
ATOM	3205	CA	SER	A	413	87.718	48.614	25.593	1.00	57.67	C
ATOM	3206	C	SER	A	413	87.452	50.016	26.093	1.00	58.81	C
ATOM	3207	O	SER	A	413	86.574	50.244	26.955	1.00	59.04	O
ATOM	3208	CB	SER	A	413	86.525	48.110	24.796	1.00	57.73	C



ATOM	3209	OG	SER	A	413	86.820	46.830	24.277	1.00	58.48	O
ATOM	3210	N	SER	A	414	88.235	50.952	25.558	1.00	60.05	N
ATOM	3211	CA	SER	A	414	88.108	52.355	25.929	1.00	61.21	C
ATOM	3212	C	SER	A	414	87.248	53.085	24.906	1.00	61.67	C
ATOM	3213	O	SER	A	414	87.212	52.733	23.715	1.00	61.43	O
ATOM	3214	CB	SER	A	414	89.497	53.021	26.038	1.00	61.75	C
ATOM	3215	OG	SER	A	414	90.215	52.979	24.807	1.00	62.16	O
ATOM	3216	N	THR	A	415	86.533	54.088	25.401	1.00	62.61	N
ATOM	3217	CA	THR	A	415	85.650	54.920	24.586	1.00	63.59	C
ATOM	3218	C	THR	A	415	86.430	56.187	24.209	1.00	64.18	C
ATOM	3219	O	THR	A	415	87.272	56.666	24.987	1.00	64.04	O
ATOM	3220	CB	THR	A	415	84.385	55.327	25.397	1.00	63.77	C
ATOM	3221	OG1	THR	A	415	84.792	55.920	26.649	1.00	64.11	O
ATOM	3222	CG2	THR	A	415	83.501	54.091	25.677	1.00	63.35	C
ATOM	3223	N	THR	A	416	86.178	56.722	23.019	1.00	64.98	N
ATOM	3224	CA	THR	A	416	86.872	57.946	22.629	1.00	65.77	C
ATOM	3225	C	THR	A	416	86.152	59.104	23.341	1.00	66.15	C
ATOM	3226	O	THR	A	416	84.915	59.162	23.358	1.00	66.17	O
ATOM	3227	CB	THR	A	416	86.875	58.149	21.073	1.00	65.98	C
ATOM	3228	OG1	THR	A	416	85.540	58.028	20.561	1.00	66.46	O
ATOM	3229	CG2	THR	A	416	87.779	57.103	20.393	1.00	66.03	C
ATOM	3230	N	ALA	A	417	86.923	59.996	23.963	1.00	66.60	N
ATOM	3231	CA	ALA	A	417	86.353	61.140	24.677	1.00	67.15	C
ATOM	3232	C	ALA	A	417	85.568	62.007	23.703	1.00	67.56	C
ATOM	3233	O	ALA	A	417	85.995	62.210	22.557	1.00	67.52	O
ATOM	3234	CB	ALA	A	417	87.472	61.969	25.341	1.00	67.20	C
ATOM	3235	N	LEU	A	418	84.417	62.510	24.147	1.00	68.58	N
ATOM	3236	CA	LEU	A	418	83.592	63.363	23.292	1.00	69.41	C
ATOM	3237	C	LEU	A	418	84.210	64.764	23.163	1.00	69.94	C
ATOM	3238	O	LEU	A	418	84.417	65.212	22.009	1.00	70.29	O
ATOM	3239	CB	LEU	A	418	82.158	63.463	23.849	1.00	69.24	C
ATOM	3240	CG	LEU	A	418	81.305	62.186	23.890	1.00	68.93	C
ATOM	3241	CD1	LEU	A	418	79.873	62.554	24.297	1.00	68.93	C
ATOM	3242	CD2	LEU	A	418	81.312	61.504	22.528	1.00	68.58	C
TER	3243		LEU	A	418						
ATOM	3244	N	ALA	B	1	32.241	15.183	22.124	1.00	54.50	N
ATOM	3245	CA	ALA	B	1	31.454	16.453	22.105	1.00	53.95	C
ATOM	3246	C	ALA	B	1	31.573	17.080	20.714	1.00	53.21	C
ATOM	3247	O	ALA	B	1	31.025	16.569	19.717	1.00	53.55	O
ATOM	3248	CB	ALA	B	1	31.990	17.446	23.197	1.00	54.57	C
ATOM	3249	N	SER	B	2	32.318	18.178	20.655	1.00	51.42	N
ATOM	3250	CA	SER	B	2	32.524	18.900	19.411	1.00	48.88	C
ATOM	3251	C	SER	B	2	33.613	18.242	18.565	1.00	47.34	C
ATOM	3252	O	SER	B	2	34.558	17.640	19.100	1.00	46.97	O
ATOM	3253	CB	SER	B	2	32.937	20.349	19.743	1.00	48.85	C
ATOM	3254	OG	SER	B	2	33.037	21.164	18.586	1.00	48.26	O
ATOM	3255	N	VAL	B	3	33.475	18.336	17.247	1.00	45.00	N
ATOM	3256	CA	VAL	B	3	34.529	17.829	16.374	1.00	43.52	C
ATOM	3257	C	VAL	B	3	35.305	19.045	15.834	1.00	41.76	C
ATOM	3258	O	VAL	B	3	36.238	18.880	15.041	1.00	41.03	O
ATOM	3259	CB	VAL	B	3	33.983	17.014	15.160	1.00	43.65	C
ATOM	3260	CG1	VAL	B	3	33.400	15.683	15.646	1.00	44.98	C
ATOM	3261	CG2	VAL	B	3	32.923	17.824	14.399	1.00	44.16	C
ATOM	3262	N	VAL	B	4	34.917	20.261	16.253	1.00	39.75	N
ATOM	3263	CA	VAL	B	4	35.605	21.477	15.760	1.00	37.97	C
ATOM	3264	C	VAL	B	4	37.087	21.482	16.144	1.00	36.65	C
ATOM	3265	O	VAL	B	4	37.448	21.342	17.316	1.00	35.89	O
ATOM	3266	CB	VAL	B	4	34.908	22.798	16.257	1.00	37.87	C
ATOM	3267	CG1	VAL	B	4	35.736	24.039	15.828	1.00	36.49	C
ATOM	3268	CG2	VAL	B	4	33.491	22.899	15.647	1.00	37.01	C
ATOM	3269	N	GLY	B	5	37.942	21.580	15.131	1.00	36.12	N
ATOM	3270	CA	GLY	B	5	39.379	21.589	15.362	1.00	35.39	C
ATOM	3271	C	GLY	B	5	39.984	20.274	15.832	1.00	35.13	C
ATOM	3272	O	GLY	B	5	41.059	20.260	16.425	1.00	34.31	O
ATOM	3273	N	THR	B	6	39.303	19.152	15.590	1.00	35.42	N
ATOM	3274	CA	THR	B	6	39.857	17.862	15.998	1.00	35.11	C
ATOM	3275	C	THR	B	6	41.168	17.611	15.245	1.00	33.67	C
ATOM	3276	O	THR	B	6	41.241	17.769	14.044	1.00	32.70	O
ATOM	3277	CB	THR	B	6	38.891	16.668	15.702	1.00	36.87	C
ATOM	3278	OG1	THR	B	6	37.700	16.790	16.501	1.00	38.86	O
ATOM	3279	CG2	THR	B	6	39.568	15.347	16.113	1.00	37.54	C
ATOM	3280	N	PRO	B	7	42.217	17.211	15.961	1.00	33.12	N
ATOM	3281	CA	PRO	B	7	43.516	16.944	15.350	1.00	33.42	C
ATOM	3282	C	PRO	B	7	43.475	15.821	14.318	1.00	34.33	C
ATOM	3283	O	PRO	B	7	42.625	14.946	14.395	1.00	33.63	O
ATOM	3284	CB	PRO	B	7	44.378	16.520	16.525	1.00	33.47	C
ATOM	3285	CG	PRO	B	7	43.687	17.064	17.728	1.00	33.42	C
ATOM	3286	CD	PRO	B	7	42.237	16.951	17.405	1.00	32.84	C
ATOM	3287	N	LYS	B	8	44.398	15.853	13.362	1.00	34.88	N
ATOM	3288	CA	LYS	B	8	44.503	14.772	12.378	1.00	35.24	C



ATOM	3289	C	LYS	B	8	45.222	13.650	13.109	1.00	35.18	C
ATOM	3290	O	LYS	B	8	45.884	13.892	14.127	1.00	35.03	O
ATOM	3291	CB	LYS	B	8	45.382	15.174	11.203	1.00	35.14	C
ATOM	3292	CG	LYS	B	8	44.796	16.189	10.288	1.00	35.77	C
ATOM	3293	CD	LYS	B	8	45.892	16.651	9.324	1.00	36.53	C
ATOM	3294	CE	LYS	B	8	45.506	17.954	8.657	1.00	36.62	C
ATOM	3295	NZ	LYS	B	8	46.625	18.439	7.854	1.00	36.36	N
ATOM	3296	N	SER	B	9	45.112	12.417	12.600	1.00	35.06	N
ATOM	3297	CA	SER	B	9	45.826	11.294	13.230	1.00	34.12	C
ATOM	3298	C	SER	B	9	47.264	11.350	12.717	1.00	33.98	C
ATOM	3299	O	SER	B	9	47.538	11.969	11.679	1.00	33.65	O
ATOM	3300	CB	SER	B	9	45.242	9.951	12.773	1.00	34.45	C
ATOM	3301	OG	SER	B	9	45.585	9.738	11.414	1.00	33.51	O
ATOM	3302	N	ALA	B	10	48.160	10.667	13.422	1.00	34.53	N
ATOM	3303	CA	ALA	B	10	49.553	10.579	13.025	1.00	35.36	C
ATOM	3304	C	ALA	B	10	49.630	9.936	11.640	1.00	36.58	C
ATOM	3305	O	ALA	B	10	50.440	10.320	10.788	1.00	36.24	O
ATOM	3306	CB	ALA	B	10	50.306	9.738	14.012	1.00	34.75	C
ATOM	3307	N	GLU	B	11	48.774	8.947	11.396	1.00	38.12	N
ATOM	3308	CA	GLU	B	11	48.807	8.281	10.092	1.00	39.44	C
ATOM	3309	C	GLU	B	11	48.474	9.276	8.980	1.00	38.89	C
ATOM	3310	O	GLU	B	11	49.133	9.293	7.943	1.00	38.72	O
ATOM	3311	CB	GLU	B	11	47.825	7.095	10.068	1.00	41.44	C
ATOM	3312	CG	GLU	B	11	48.177	5.931	11.036	1.00	45.13	C
ATOM	3313	CD	GLU	B	11	48.078	6.282	12.558	1.00	47.82	C
ATOM	3314	OE1	GLU	B	11	47.223	7.127	12.961	1.00	48.20	O
ATOM	3315	OE2	GLU	B	11	48.866	5.689	13.358	1.00	49.01	O
ATOM	3316	N	GLN	B	12	47.461	10.118	9.188	1.00	39.14	N
ATOM	3317	CA	GLN	B	12	47.090	11.088	8.158	1.00	39.32	C
ATOM	3318	C	GLN	B	12	48.240	12.045	7.856	1.00	38.74	C
ATOM	3319	O	GLN	B	12	48.517	12.357	6.693	1.00	38.65	O
ATOM	3320	CB	GLN	B	12	45.889	11.906	8.593	1.00	41.46	C
ATOM	3321	CG	GLN	B	12	44.646	11.097	8.839	1.00	44.26	C
ATOM	3322	CD	GLN	B	12	43.520	11.978	9.303	1.00	46.27	C
ATOM	3323	OE1	GLN	B	12	42.927	12.713	8.507	1.00	48.63	O
ATOM	3324	NE2	GLN	B	12	43.233	11.942	10.596	1.00	46.71	N
ATOM	3325	N	ILE	B	13	48.885	12.517	8.916	1.00	37.82	N
ATOM	3326	CA	ILE	B	13	50.010	13.430	8.787	1.00	37.77	C
ATOM	3327	C	ILE	B	13	51.134	12.729	8.003	1.00	37.63	C
ATOM	3328	O	ILE	B	13	51.668	13.300	7.044	1.00	36.85	O
ATOM	3329	CB	ILE	B	13	50.520	13.879	10.201	1.00	37.47	C
ATOM	3330	CG1	ILE	B	13	49.465	14.791	10.869	1.00	38.07	C
ATOM	3331	CG2	ILE	B	13	51.870	14.572	10.086	1.00	37.44	C
ATOM	3332	CD1	ILE	B	13	49.841	15.260	12.318	1.00	38.35	C
ATOM	3333	N	GLN	B	14	51.490	11.501	8.408	1.00	37.86	N
ATOM	3334	CA	GLN	B	14	52.542	10.735	7.710	1.00	38.49	C
ATOM	3335	C	GLN	B	14	52.222	10.615	6.219	1.00	38.65	C
ATOM	3336	O	GLN	B	14	53.093	10.758	5.363	1.00	38.65	O
ATOM	3337	CB	GLN	B	14	52.665	9.325	8.303	1.00	38.56	C
ATOM	3338	CG	GLN	B	14	53.847	8.567	7.742	1.00	38.75	C
ATOM	3339	CD	GLN	B	14	55.146	9.218	8.118	1.00	38.98	C
ATOM	3340	OE1	GLN	B	14	55.473	9.324	9.301	1.00	39.78	O
ATOM	3341	NE2	GLN	B	14	55.899	9.673	7.121	1.00	39.23	N
ATOM	3342	N	GLN	B	15	50.962	10.351	5.916	1.00	39.80	N
ATOM	3343	CA	GLN	B	15	50.534	10.217	4.538	1.00	40.80	C
ATOM	3344	C	GLN	B	15	50.791	11.493	3.750	1.00	40.82	C
ATOM	3345	O	GLN	B	15	51.233	11.430	2.594	1.00	40.65	O
ATOM	3346	CB	GLN	B	15	49.052	9.882	4.483	1.00	43.05	C
ATOM	3347	CG	GLN	B	15	48.483	9.877	3.072	1.00	46.32	C
ATOM	3348	CD	GLN	B	15	48.993	8.710	2.234	1.00	48.83	C
ATOM	3349	OE1	GLN	B	15	50.189	8.381	2.253	1.00	50.49	O
ATOM	3350	NE2	GLN	B	15	48.088	8.080	1.482	1.00	49.92	N
ATOM	3351	N	GLU	B	16	50.502	12.652	4.358	1.00	40.20	N
ATOM	3352	CA	GLU	B	16	50.738	13.935	3.684	1.00	39.85	C
ATOM	3353	C	GLU	B	16	52.227	14.106	3.443	1.00	38.62	C
ATOM	3354	O	GLU	B	16	52.641	14.483	2.353	1.00	38.34	O
ATOM	3355	CB	GLU	B	16	50.237	15.115	4.524	1.00	41.53	C
ATOM	3356	CG	GLU	B	16	48.733	15.160	4.697	1.00	45.12	C
ATOM	3357	CD	GLU	B	16	48.253	16.348	5.559	1.00	47.54	C
ATOM	3358	OE1	GLU	B	16	48.719	17.494	5.309	1.00	49.33	O
ATOM	3359	OE2	GLU	B	16	47.412	16.147	6.473	1.00	48.30	O
ATOM	3360	N	TRP	B	17	53.032	13.821	4.460	1.00	37.38	N
ATOM	3361	CA	TRP	B	17	54.474	13.952	4.319	1.00	37.47	C
ATOM	3362	C	TRP	B	17	55.018	13.042	3.209	1.00	38.42	C
ATOM	3363	O	TRP	B	17	55.926	13.425	2.459	1.00	38.33	O
ATOM	3364	CB	TRP	B	17	55.189	13.612	5.632	1.00	35.70	C
ATOM	3365	CG	TRP	B	17	54.968	14.627	6.729	1.00	34.49	C
ATOM	3366	CD1	TRP	B	17	54.233	15.790	6.647	1.00	33.64	C
ATOM	3367	CD2	TRP	B	17	55.398	14.518	8.087	1.00	33.48	C
ATOM	3368	NE1	TRP	B	17	54.177	16.401	7.885	1.00	33.86	N



ATOM	3369	CE2	TRP	B	17	54.886	15.645	8.785	1.00	33.24	C
ATOM	3370	CE3	TRP	B	17	56.166	13.578	8.787	1.00	33.41	C
ATOM	3371	CZ2	TRP	B	17	55.116	15.852	10.149	1.00	32.92	C
ATOM	3372	CZ3	TRP	B	17	56.400	13.784	10.155	1.00	33.74	C
ATOM	3373	CH2	TRP	B	17	55.872	14.921	10.824	1.00	32.23	C
ATOM	3374	N	ASP	B	18	54.454	11.839	3.120	1.00	38.97	N
ATOM	3375	CA	ASP	B	18	54.903	10.859	2.127	1.00	39.90	C
ATOM	3376	C	ASP	B	18	54.445	11.159	0.720	1.00	39.92	C
ATOM	3377	O	ASP	B	18	55.148	10.841	-0.239	1.00	40.56	O
ATOM	3378	CB	ASP	B	18	54.403	9.446	2.469	1.00	40.23	C
ATOM	3379	CG	ASP	B	18	54.941	8.925	3.777	1.00	40.51	C
ATOM	3380	OD1	ASP	B	18	55.979	9.398	4.273	1.00	40.94	O
ATOM	3381	OD2	ASP	B	18	54.311	8.005	4.319	1.00	42.03	O
ATOM	3382	N	THR	B	19	53.288	11.794	0.577	1.00	39.85	N
ATOM	3383	CA	THR	B	19	52.780	12.006	-0.756	1.00	39.56	C
ATOM	3384	C	THR	B	19	52.664	13.394	-1.328	1.00	39.08	C
ATOM	3385	O	THR	B	19	52.625	13.537	-2.555	1.00	39.48	O
ATOM	3386	CB	THR	B	19	51.418	11.341	-0.894	1.00	40.38	C
ATOM	3387	OG1	THR	B	19	50.457	12.070	-0.135	1.00	41.62	O
ATOM	3388	CG2	THR	B	19	51.476	9.926	-0.343	1.00	40.62	C
ATOM	3389	N	ASN	B	20	52.591	14.421	-0.483	1.00	37.70	N
ATOM	3390	CA	ASN	B	20	52.462	15.785	-1.004	1.00	36.14	C
ATOM	3391	C	ASN	B	20	53.831	16.258	-1.482	1.00	34.55	C
ATOM	3392	O	ASN	B	20	54.802	16.251	-0.715	1.00	34.33	O
ATOM	3393	CB	ASN	B	20	51.927	16.737	0.086	1.00	36.63	C
ATOM	3394	CG	ASN	B	20	51.533	18.095	-0.474	1.00	36.61	C
ATOM	3395	OD1	ASN	B	20	52.149	18.607	-1.394	1.00	35.74	O
ATOM	3396	ND2	ASN	B	20	50.506	18.685	0.102	1.00	38.55	N
ATOM	3397	N	PRO	B	21	53.932	16.663	-2.756	1.00	33.50	N
ATOM	3398	CA	PRO	B	21	55.215	17.128	-3.281	1.00	33.42	C
ATOM	3399	C	PRO	B	21	55.780	18.341	-2.517	1.00	32.72	C
ATOM	3400	O	PRO	B	21	56.973	18.656	-2.618	1.00	32.15	O
ATOM	3401	CB	PRO	B	21	54.905	17.422	-4.752	1.00	34.12	C
ATOM	3402	CG	PRO	B	21	53.452	17.724	-4.746	1.00	34.35	C
ATOM	3403	CD	PRO	B	21	52.878	16.745	-3.775	1.00	33.59	C
ATOM	3404	N	ARG	B	22	54.921	19.022	-1.761	1.00	31.72	N
ATOM	3405	CA	ARG	B	22	55.373	20.148	-0.949	1.00	31.10	C
ATOM	3406	C	ARG	B	22	56.506	19.675	-0.015	1.00	30.99	C
ATOM	3407	O	ARG	B	22	57.446	20.435	0.294	1.00	30.43	O
ATOM	3408	CB	ARG	B	22	54.224	20.683	-0.084	1.00	29.78	C
ATOM	3409	CG	ARG	B	22	54.737	21.638	1.027	1.00	29.90	C
ATOM	3410	CD	ARG	B	22	55.286	22.915	0.399	1.00	30.17	C
ATOM	3411	NE	ARG	B	22	55.623	23.943	1.380	1.00	29.34	N
ATOM	3412	CZ	ARG	B	22	56.762	23.997	2.057	1.00	28.85	C
ATOM	3413	NH1	ARG	B	22	57.710	23.075	1.853	1.00	27.78	N
ATOM	3414	NH2	ARG	B	22	56.940	24.960	2.972	1.00	27.52	N
ATOM	3415	N	TRP	B	23	56.415	18.422	0.428	1.00	31.16	N
ATOM	3416	CA	TRP	B	23	57.401	17.859	1.352	1.00	31.94	C
ATOM	3417	C	TRP	B	23	58.555	17.040	0.755	1.00	33.05	C
ATOM	3418	O	TRP	B	23	59.349	16.434	1.481	1.00	32.12	O
ATOM	3419	CB	TRP	B	23	56.677	17.051	2.420	1.00	31.95	C
ATOM	3420	CG	TRP	B	23	55.596	17.870	3.069	1.00	32.93	C
ATOM	3421	CD1	TRP	B	23	54.262	17.575	3.115	1.00	33.42	C
ATOM	3422	CD2	TRP	B	23	55.746	19.166	3.691	1.00	32.66	C
ATOM	3423	NE1	TRP	B	23	53.569	18.604	3.716	1.00	33.39	N
ATOM	3424	CE2	TRP	B	23	54.452	19.591	4.085	1.00	33.41	C
ATOM	3425	CE3	TRP	B	23	56.845	20.012	3.940	1.00	32.54	C
ATOM	3426	CZ2	TRP	B	23	54.217	20.843	4.742	1.00	32.96	C
ATOM	3427	CZ3	TRP	B	23	56.611	21.264	4.588	1.00	32.88	C
ATOM	3428	CH2	TRP	B	23	55.306	21.656	4.975	1.00	31.93	C
ATOM	3429	N	LYS	B	24	58.668	17.068	-0.561	1.00	34.96	N
ATOM	3430	CA	LYS	B	24	59.749	16.377	-1.264	1.00	37.45	C
ATOM	3431	C	LYS	B	24	61.120	16.924	-0.793	1.00	37.86	C
ATOM	3432	O	LYS	B	24	61.367	18.124	-0.832	1.00	38.57	O
ATOM	3433	CB	LYS	B	24	59.570	16.614	-2.767	1.00	38.70	C
ATOM	3434	CG	LYS	B	24	60.708	16.076	-3.622	1.00	42.86	C
ATOM	3435	CD	LYS	B	24	60.430	16.318	-5.103	1.00	44.66	C
ATOM	3436	CE	LYS	B	24	61.696	16.053	-5.931	1.00	47.13	C
ATOM	3437	NZ	LYS	B	24	62.278	14.701	-5.597	1.00	48.28	N
ATOM	3438	N	ASP	B	25	62.022	16.067	-0.347	1.00	37.97	N
ATOM	3439	CA	ASP	B	25	63.327	16.564	0.109	1.00	38.12	C
ATOM	3440	C	ASP	B	25	63.307	17.383	1.412	1.00	36.86	C
ATOM	3441	O	ASP	B	25	64.248	18.129	1.703	1.00	35.83	O
ATOM	3442	CB	ASP	B	25	64.002	17.418	-0.978	1.00	40.54	C
ATOM	3443	CG	ASP	B	25	64.099	16.690	-2.315	1.00	42.40	C
ATOM	3444	OD1	ASP	B	25	64.534	15.506	-2.304	1.00	42.06	O
ATOM	3445	OD2	ASP	B	25	63.720	17.318	-3.349	1.00	43.90	O
ATOM	3446	N	VAL	B	26	62.240	17.253	2.187	1.00	36.01	N
ATOM	3447	CA	VAL	B	26	62.160	17.944	3.471	1.00	34.25	C
ATOM	3448	C	VAL	B	26	62.417	16.914	4.549	1.00	34.03	C



ATOM	3449	O	VAL	B	26	61.618	16.004	4.742	1.00	34.05	O
ATOM	3450	CB	VAL	B	26	60.766	18.561	3.716	1.00	34.33	C
ATOM	3451	CG1	VAL	B	26	60.666	19.054	5.163	1.00	33.40	C
ATOM	3452	CG2	VAL	B	26	60.518	19.698	2.738	1.00	33.10	C
ATOM	3453	N	THR	B	27	63.527	17.057	5.252	1.00	33.16	N
ATOM	3454	CA	THR	B	27	63.872	16.139	6.317	1.00	33.17	C
ATOM	3455	C	THR	B	27	63.278	16.588	7.664	1.00	33.21	C
ATOM	3456	O	THR	B	27	63.394	17.763	8.043	1.00	32.20	O
ATOM	3457	CB	THR	B	27	65.411	16.058	6.471	1.00	33.89	C
ATOM	3458	OG1	THR	B	27	65.964	15.426	5.308	1.00	34.69	O
ATOM	3459	CG2	THR	B	27	65.814	15.289	7.731	1.00	34.16	C
ATOM	3460	N	ARG	B	28	62.612	15.665	8.359	1.00	32.36	N
ATOM	3461	CA	ARG	B	28	62.086	15.956	9.700	1.00	32.01	C
ATOM	3462	C	ARG	B	28	62.674	14.861	10.567	1.00	32.39	C
ATOM	3463	O	ARG	B	28	62.395	13.689	10.332	1.00	32.69	O
ATOM	3464	CB	ARG	B	28	60.558	15.881	9.732	1.00	31.30	C
ATOM	3465	CG	ARG	B	28	59.826	16.969	8.909	1.00	29.74	C
ATOM	3466	CD	ARG	B	28	58.343	16.700	8.973	1.00	29.71	C
ATOM	3467	NE	ARG	B	28	57.502	17.849	8.620	1.00	29.10	N
ATOM	3468	CZ	ARG	B	28	57.087	18.137	7.394	1.00	29.31	C
ATOM	3469	NH1	ARG	B	28	57.440	17.366	6.355	1.00	28.16	N
ATOM	3470	NH2	ARG	B	28	56.268	19.173	7.205	1.00	28.41	N
ATOM	3471	N	THR	B	29	63.499	15.234	11.549	1.00	32.69	N
ATOM	3472	CA	THR	B	29	64.106	14.264	12.448	1.00	32.21	C
ATOM	3473	C	THR	B	29	63.215	13.832	13.621	1.00	32.33	C
ATOM	3474	O	THR	B	29	63.637	13.050	14.479	1.00	32.88	O
ATOM	3475	CB	THR	B	29	65.481	14.772	12.968	1.00	32.41	C
ATOM	3476	OG1	THR	B	29	65.322	16.040	13.639	1.00	30.89	O
ATOM	3477	CG2	THR	B	29	66.450	14.931	11.768	1.00	31.84	C
ATOM	3478	N	TYR	B	30	61.991	14.344	13.680	1.00	31.82	N
ATOM	3479	CA	TYR	B	30	61.043	13.913	14.708	1.00	31.03	C
ATOM	3480	C	TYR	B	30	59.975	13.200	13.905	1.00	31.34	C
ATOM	3481	O	TYR	B	30	59.986	13.254	12.675	1.00	31.86	O
ATOM	3482	CB	TYR	B	30	60.435	15.110	15.472	1.00	30.13	C
ATOM	3483	CG	TYR	B	30	60.012	16.234	14.565	1.00	28.91	C
ATOM	3484	CD1	TYR	B	30	58.789	16.201	13.901	1.00	28.52	C
ATOM	3485	CD2	TYR	B	30	60.871	17.325	14.334	1.00	28.53	C
ATOM	3486	CE1	TYR	B	30	58.418	17.218	13.029	1.00	27.83	C
ATOM	3487	CE2	TYR	B	30	60.508	18.342	13.466	1.00	27.83	C
ATOM	3488	CZ	TYR	B	30	59.287	18.283	12.817	1.00	27.67	C
ATOM	3489	OH	TYR	B	30	58.955	19.279	11.930	1.00	27.16	O
ATOM	3490	N	SER	B	31	59.036	12.545	14.570	1.00	32.00	N
ATOM	3491	CA	SER	B	31	58.001	11.797	13.841	1.00	32.79	C
ATOM	3492	C	SER	B	31	56.632	12.457	13.846	1.00	32.65	C
ATOM	3493	O	SER	B	31	56.402	13.415	14.587	1.00	32.38	O
ATOM	3494	CB	SER	B	31	57.799	10.438	14.494	1.00	32.69	C
ATOM	3495	OG	SER	B	31	57.239	10.674	15.781	1.00	32.99	O
ATOM	3496	N	ALA	B	32	55.722	11.881	13.062	1.00	32.66	N
ATOM	3497	CA	ALA	B	32	54.343	12.360	12.985	1.00	33.40	C
ATOM	3498	C	ALA	B	32	53.648	12.206	14.337	1.00	34.05	C
ATOM	3499	O	ALA	B	32	52.824	13.043	14.710	1.00	33.64	O
ATOM	3500	CB	ALA	B	32	53.582	11.613	11.926	1.00	33.62	C
ATOM	3501	N	GLU	B	33	53.986	11.149	15.085	1.00	34.22	N
ATOM	3502	CA	GLU	B	33	53.385	10.942	16.399	1.00	34.48	C
ATOM	3503	C	GLU	B	33	53.874	12.049	17.338	1.00	33.16	C
ATOM	3504	O	GLU	B	33	53.124	12.510	18.205	1.00	32.42	O
ATOM	3505	CB	GLU	B	33	53.778	9.575	17.006	1.00	36.92	C
ATOM	3506	CG	GLU	B	33	52.992	8.364	16.483	1.00	41.02	C
ATOM	3507	CD	GLU	B	33	51.481	8.380	16.836	1.00	44.60	C
ATOM	3508	OE1	GLU	B	33	50.991	9.286	17.589	1.00	45.75	O
ATOM	3509	OE2	GLU	B	33	50.764	7.457	16.351	1.00	46.00	O
ATOM	3510	N	ASP	B	34	55.136	12.434	17.178	1.00	31.60	N
ATOM	3511	CA	ASP	B	34	55.719	13.491	18.002	1.00	31.91	C
ATOM	3512	C	ASP	B	34	54.909	14.790	17.809	1.00	30.63	C
ATOM	3513	O	ASP	B	34	54.621	15.486	18.767	1.00	31.28	O
ATOM	3514	CB	ASP	B	34	57.187	13.747	17.627	1.00	32.13	C
ATOM	3515	CG	ASP	B	34	58.134	12.651	18.124	1.00	34.41	C
ATOM	3516	OD1	ASP	B	34	57.783	11.927	19.101	1.00	35.35	O
ATOM	3517	OD2	ASP	B	34	59.249	12.528	17.544	1.00	34.26	O
ATOM	3518	N	VAL	B	35	54.546	15.094	16.569	1.00	30.30	N
ATOM	3519	CA	VAL	B	35	53.742	16.277	16.263	1.00	29.76	C
ATOM	3520	C	VAL	B	35	52.366	16.181	16.936	1.00	29.96	C
ATOM	3521	O	VAL	B	35	51.938	17.069	17.691	1.00	29.08	O
ATOM	3522	CB	VAL	B	35	53.576	16.446	14.734	1.00	29.52	C
ATOM	3523	CG1	VAL	B	35	52.566	17.596	14.421	1.00	28.18	C
ATOM	3524	CG2	VAL	B	35	54.952	16.753	14.094	1.00	28.15	C
ATOM	3525	N	VAL	B	36	51.655	15.088	16.674	1.00	30.14	N
ATOM	3526	CA	VAL	B	36	50.348	14.925	17.275	1.00	28.88	C
ATOM	3527	C	VAL	B	36	50.355	15.072	18.795	1.00	28.79	C
ATOM	3528	O	VAL	B	36	49.424	15.686	19.363	1.00	28.48	O



ATOM	3529	CB	VAL	B	36	49.725	13.554	16.913	1.00	29.61	C
ATOM	3530	CG1	VAL	B	36	48.361	13.392	17.640	1.00	29.50	C
ATOM	3531	CG2	VAL	B	36	49.512	13.471	15.397	1.00	29.81	C
ATOM	3532	N	ALA	B	37	51.367	14.501	19.457	1.00	27.94	N
ATOM	3533	CA	ALA	B	37	51.448	14.563	20.914	1.00	28.31	C
ATOM	3534	C	ALA	B	37	51.476	15.993	21.475	1.00	28.69	C
ATOM	3535	O	ALA	B	37	51.089	16.227	22.640	1.00	28.03	O
ATOM	3536	CB	ALA	B	37	52.710	13.803	21.420	1.00	28.52	C
ATOM	3537	N	LEU	B	38	51.949	16.936	20.655	1.00	28.27	N
ATOM	3538	CA	LEU	B	38	52.068	18.331	21.074	1.00	28.44	C
ATOM	3539	C	LEU	B	38	50.851	19.166	20.747	1.00	28.42	C
ATOM	3540	O	LEU	B	38	50.781	20.321	21.148	1.00	27.96	O
ATOM	3541	CB	LEU	B	38	53.307	18.961	20.404	1.00	28.39	C
ATOM	3542	CG	LEU	B	38	54.625	18.311	20.826	1.00	27.79	C
ATOM	3543	CD1	LEU	B	38	55.744	18.709	19.868	1.00	28.15	C
ATOM	3544	CD2	LEU	B	38	54.943	18.721	22.268	1.00	27.59	C
ATOM	3545	N	GLN	B	39	49.880	18.585	20.045	1.00	28.23	N
ATOM	3546	CA	GLN	B	39	48.702	19.326	19.644	1.00	28.52	C
ATOM	3547	C	GLN	B	39	47.519	19.406	20.614	1.00	29.27	C
ATOM	3548	O	GLN	B	39	46.504	20.029	20.302	1.00	29.56	O
ATOM	3549	CB	GLN	B	39	48.231	18.831	18.251	1.00	28.68	C
ATOM	3550	CG	GLN	B	39	49.227	19.152	17.135	1.00	29.09	C
ATOM	3551	CD	GLN	B	39	48.794	18.621	15.784	1.00	29.82	C
ATOM	3552	OE1	GLN	B	39	48.289	17.496	15.693	1.00	30.14	O
ATOM	3553	NE2	GLN	B	39	49.004	19.413	14.714	1.00	28.68	N
ATOM	3554	N	GLY	B	40	47.615	18.805	21.785	1.00	29.58	N
ATOM	3555	CA	GLY	B	40	46.468	18.911	22.670	1.00	30.53	C
ATOM	3556	C	GLY	B	40	45.258	18.296	21.981	1.00	31.26	C
ATOM	3557	O	GLY	B	40	45.421	17.456	21.074	1.00	31.79	O
ATOM	3558	N	SER	B	41	44.049	18.686	22.366	1.00	30.64	N
ATOM	3559	CA	SER	B	41	42.912	18.063	21.720	1.00	30.97	C
ATOM	3560	C	SER	B	41	42.130	18.912	20.746	1.00	30.70	C
ATOM	3561	O	SER	B	41	41.096	18.480	20.220	1.00	30.46	O
ATOM	3562	CB	SER	B	41	41.981	17.452	22.773	1.00	32.22	C
ATOM	3563	OG	SER	B	41	41.444	18.421	23.615	1.00	33.88	O
ATOM	3564	N	VAL	B	42	42.632	20.110	20.471	1.00	29.56	N
ATOM	3565	CA	VAL	B	42	41.978	21.010	19.519	1.00	28.74	C
ATOM	3566	C	VAL	B	42	43.082	21.780	18.804	1.00	27.53	C
ATOM	3567	O	VAL	B	42	43.990	22.285	19.436	1.00	27.94	O
ATOM	3568	CB	VAL	B	42	41.064	22.037	20.235	1.00	29.37	C
ATOM	3569	CG1	VAL	B	42	40.505	23.057	19.205	1.00	29.77	C
ATOM	3570	CG2	VAL	B	42	39.920	21.317	20.935	1.00	30.28	C
ATOM	3571	N	VAL	B	43	43.043	21.823	17.479	1.00	27.20	N
ATOM	3572	CA	VAL	B	43	44.054	22.563	16.748	1.00	26.31	C
ATOM	3573	C	VAL	B	43	43.369	23.798	16.150	1.00	26.45	C
ATOM	3574	O	VAL	B	43	42.412	23.664	15.354	1.00	26.00	O
ATOM	3575	CB	VAL	B	43	44.672	21.701	15.615	1.00	25.59	C
ATOM	3576	CG1	VAL	B	43	45.590	22.574	14.718	1.00	26.13	C
ATOM	3577	CG2	VAL	B	43	45.498	20.556	16.236	1.00	25.42	C
ATOM	3578	N	GLU	B	44	43.808	25.002	16.542	1.00	25.85	N
ATOM	3579	CA	GLU	B	44	43.204	26.201	15.938	1.00	24.87	C
ATOM	3580	C	GLU	B	44	43.592	26.241	14.491	1.00	24.73	C
ATOM	3581	O	GLU	B	44	44.717	25.924	14.144	1.00	24.91	O
ATOM	3582	CB	GLU	B	44	43.693	27.501	16.590	1.00	24.32	C
ATOM	3583	CG	GLU	B	44	43.262	27.663	18.046	1.00	22.37	C
ATOM	3584	CD	GLU	B	44	43.777	28.974	18.637	1.00	23.09	C
ATOM	3585	OE1	GLU	B	44	43.093	29.999	18.503	1.00	21.95	O
ATOM	3586	OE2	GLU	B	44	44.875	28.972	19.215	1.00	23.93	O
ATOM	3587	N	GLU	B	45	42.652	26.621	13.634	1.00	25.22	N
ATOM	3588	CA	GLU	B	45	42.946	26.765	12.224	1.00	25.48	C
ATOM	3589	C	GLU	B	45	43.575	28.164	12.081	1.00	25.67	C
ATOM	3590	O	GLU	B	45	43.109	29.111	12.721	1.00	25.71	O
ATOM	3591	CB	GLU	B	45	41.633	26.697	11.407	1.00	27.24	C
ATOM	3592	CG	GLU	B	45	41.733	27.270	10.000	1.00	30.55	C
ATOM	3593	CD	GLU	B	45	42.502	26.376	9.051	1.00	33.70	C
ATOM	3594	OE1	GLU	B	45	43.340	25.596	9.522	1.00	35.82	O
ATOM	3595	OE2	GLU	B	45	42.282	26.453	7.811	1.00	36.70	O
ATOM	3596	N	HIS	B	46	44.617	28.295	11.258	1.00	24.65	N
ATOM	3597	CA	HIS	B	46	45.275	29.589	11.012	1.00	24.77	C
ATOM	3598	C	HIS	B	46	45.123	29.859	9.513	1.00	24.66	C
ATOM	3599	O	HIS	B	46	46.039	29.616	8.709	1.00	24.90	O
ATOM	3600	CB	HIS	B	46	46.750	29.514	11.377	1.00	24.25	C
ATOM	3601	CG	HIS	B	46	46.992	29.201	12.821	1.00	25.20	C
ATOM	3602	ND1	HIS	B	46	46.682	30.090	13.828	1.00	23.75	N
ATOM	3603	CD2	HIS	B	46	47.482	28.088	13.431	1.00	24.36	C
ATOM	3604	CE1	HIS	B	46	46.970	29.542	14.997	1.00	24.75	C
ATOM	3605	NE2	HIS	B	46	47.455	28.327	14.783	1.00	25.47	N
ATOM	3606	N	THR	B	47	43.949	30.354	9.143	1.00	24.77	N
ATOM	3607	CA	THR	B	47	43.597	30.595	7.734	1.00	24.36	C
ATOM	3608	C	THR	B	47	44.623	31.394	6.926	1.00	24.66	C



ATOM	3609	O	THR	B	47	45.102	30.955	5.856	1.00	24.72	O
ATOM	3610	CB	THR	B	47	42.243	31.334	7.680	1.00	24.17	C
ATOM	3611	OG1	THR	B	47	41.284	30.569	8.421	1.00	24.09	O
ATOM	3612	CG2	THR	B	47	41.758	31.588	6.219	1.00	22.82	C
ATOM	3613	N	LEU	B	48	44.948	32.588	7.407	1.00	23.40	N
ATOM	3614	CA	LEU	B	48	45.894	33.411	6.659	1.00	23.75	C
ATOM	3615	C	LEU	B	48	47.272	32.765	6.556	1.00	22.99	C
ATOM	3616	O	LEU	B	48	47.922	32.851	5.518	1.00	24.71	O
ATOM	3617	CB	LEU	B	48	45.985	34.829	7.278	1.00	22.72	C
ATOM	3618	CG	LEU	B	48	44.620	35.546	7.206	1.00	23.82	C
ATOM	3619	CD1	LEU	B	48	44.789	37.026	7.661	1.00	23.43	C
ATOM	3620	CD2	LEU	B	48	44.031	35.487	5.792	1.00	23.06	C
ATOM	3621	N	ALA	B	49	47.719	32.103	7.607	1.00	23.42	N
ATOM	3622	CA	ALA	B	49	49.015	31.454	7.553	1.00	23.24	C
ATOM	3623	C	ALA	B	49	48.968	30.297	6.531	1.00	24.14	C
ATOM	3624	O	ALA	B	49	49.926	30.063	5.818	1.00	23.20	O
ATOM	3625	CB	ALA	B	49	49.382	30.912	8.918	1.00	22.85	C
ATOM	3626	N	ARG	B	50	47.857	29.565	6.495	1.00	24.61	N
ATOM	3627	CA	ARG	B	50	47.739	28.449	5.555	1.00	25.05	C
ATOM	3628	C	ARG	B	50	47.688	28.964	4.133	1.00	25.34	C
ATOM	3629	O	ARG	B	50	48.469	28.540	3.279	1.00	25.69	O
ATOM	3630	CB	ARG	B	50	46.475	27.617	5.833	1.00	25.20	C
ATOM	3631	CG	ARG	B	50	46.286	26.477	4.768	1.00	27.13	C
ATOM	3632	CD	ARG	B	50	44.988	25.673	5.011	1.00	29.09	C
ATOM	3633	NE	ARG	B	50	44.878	25.324	6.429	1.00	30.69	N
ATOM	3634	CZ	ARG	B	50	45.730	24.516	7.049	1.00	31.40	C
ATOM	3635	NH1	ARG	B	50	46.742	23.955	6.370	1.00	29.76	N
ATOM	3636	NH2	ARG	B	50	45.597	24.309	8.354	1.00	31.26	N
ATOM	3637	N	ARG	B	51	46.778	29.898	3.870	1.00	25.69	N
ATOM	3638	CA	ARG	B	51	46.639	30.435	2.518	1.00	26.15	C
ATOM	3639	C	ARG	B	51	47.922	31.105	2.018	1.00	26.51	C
ATOM	3640	O	ARG	B	51	48.369	30.881	0.871	1.00	26.37	O
ATOM	3641	CB	ARG	B	51	45.492	31.452	2.491	1.00	26.70	C
ATOM	3642	CG	ARG	B	51	45.086	31.933	1.104	1.00	28.14	C
ATOM	3643	CD	ARG	B	51	43.847	32.816	1.280	1.00	29.63	C
ATOM	3644	NE	ARG	B	51	43.208	33.231	0.035	1.00	30.98	N
ATOM	3645	CZ	ARG	B	51	43.733	34.095	-0.829	1.00	32.87	C
ATOM	3646	NH1	ARG	B	51	44.940	34.640	-0.610	1.00	31.61	N
ATOM	3647	NH2	ARG	B	51	43.005	34.481	-1.886	1.00	33.44	N
ATOM	3648	N	GLY	B	52	48.526	31.930	2.879	1.00	25.24	N
ATOM	3649	CA	GLY	B	52	49.739	32.617	2.474	1.00	24.19	C
ATOM	3650	C	GLY	B	52	50.879	31.656	2.135	1.00	24.29	C
ATOM	3651	O	GLY	B	52	51.584	31.829	1.158	1.00	23.63	O
ATOM	3652	N	ALA	B	53	51.068	30.652	2.973	1.00	24.45	N
ATOM	3653	CA	ALA	B	53	52.127	29.698	2.752	1.00	25.37	C
ATOM	3654	C	ALA	B	53	51.914	28.918	1.440	1.00	25.75	C
ATOM	3655	O	ALA	B	53	52.885	28.652	0.709	1.00	26.44	O
ATOM	3656	CB	ALA	B	53	52.199	28.729	3.953	1.00	24.31	C
ATOM	3657	N	GLU	B	54	50.658	28.567	1.151	1.00	25.89	N
ATOM	3658	CA	GLU	B	54	50.312	27.813	-0.052	1.00	26.85	C
ATOM	3659	C	GLU	B	54	50.492	28.673	-1.270	1.00	27.02	C
ATOM	3660	O	GLU	B	54	51.098	28.234	-2.253	1.00	27.05	O
ATOM	3661	CB	GLU	B	54	48.864	27.298	0.026	1.00	28.54	C
ATOM	3662	CG	GLU	B	54	48.737	26.133	1.031	1.00	29.46	C
ATOM	3663	CD	GLU	B	54	47.336	25.523	1.066	1.00	30.77	C
ATOM	3664	OE1	GLU	B	54	46.399	26.103	0.507	1.00	32.13	O
ATOM	3665	OE2	GLU	B	54	47.171	24.466	1.669	1.00	31.60	O
ATOM	3666	N	VAL	B	55	49.994	29.910	-1.209	1.00	26.51	N
ATOM	3667	CA	VAL	B	55	50.162	30.825	-2.333	1.00	27.34	C
ATOM	3668	C	VAL	B	55	51.638	31.107	-2.592	1.00	27.57	C
ATOM	3669	O	VAL	B	55	52.090	31.136	-3.752	1.00	28.39	O
ATOM	3670	CB	VAL	B	55	49.421	32.177	-2.100	1.00	26.53	C
ATOM	3671	CG1	VAL	B	55	49.893	33.248	-3.129	1.00	25.11	C
ATOM	3672	CG2	VAL	B	55	47.908	31.932	-2.204	1.00	26.97	C
ATOM	3673	N	LEU	B	56	52.396	31.326	-1.526	1.00	27.95	N
ATOM	3674	CA	LEU	B	56	53.807	31.627	-1.702	1.00	27.50	C
ATOM	3675	C	LEU	B	56	54.508	30.432	-2.376	1.00	27.98	C
ATOM	3676	O	LEU	B	56	55.300	30.597	-3.297	1.00	27.20	O
ATOM	3677	CB	LEU	B	56	54.457	31.910	-0.349	1.00	26.75	C
ATOM	3678	CG	LEU	B	56	55.976	32.126	-0.347	1.00	27.09	C
ATOM	3679	CD1	LEU	B	56	56.333	33.248	-1.323	1.00	26.91	C
ATOM	3680	CD2	LEU	B	56	56.462	32.482	1.081	1.00	26.89	C
ATOM	3681	N	TRP	B	57	54.228	29.238	-1.878	1.00	28.61	N
ATOM	3682	CA	TRP	B	57	54.857	28.049	-2.440	1.00	29.97	C
ATOM	3683	C	TRP	B	57	54.538	27.947	-3.940	1.00	30.07	C
ATOM	3684	O	TRP	B	57	55.438	27.754	-4.739	1.00	30.08	O
ATOM	3685	CB	TRP	B	57	54.408	26.792	-1.688	1.00	29.90	C
ATOM	3686	CG	TRP	B	57	55.125	25.543	-2.144	1.00	30.98	C
ATOM	3687	CD1	TRP	B	57	54.585	24.495	-2.850	1.00	31.23	C
ATOM	3688	CD2	TRP	B	57	56.495	25.197	-1.893	1.00	30.61	C



ATOM	3689	NE1	TRP	B	57	55.540	23.518	-3.043	1.00	31.48	N
ATOM	3690	CE2	TRP	B	57	56.717	23.926	-2.468	1.00	31.34	C
ATOM	3691	CE3	TRP	B	57	57.555	25.838	-1.240	1.00	30.96	C
ATOM	3692	CZ2	TRP	B	57	57.959	23.287	-2.407	1.00	31.92	C
ATOM	3693	CZ3	TRP	B	57	58.780	25.210	-1.176	1.00	30.89	C
ATOM	3694	CH2	TRP	B	57	58.975	23.941	-1.759	1.00	31.59	C
ATOM	3695	N	GLU	B	58	53.283	28.130	-4.328	1.00	31.01	N
ATOM	3696	CA	GLU	B	58	52.947	28.035	-5.739	1.00	32.18	C
ATOM	3697	C	GLU	B	58	53.648	29.129	-6.560	1.00	32.07	C
ATOM	3698	O	GLU	B	58	54.182	28.855	-7.642	1.00	32.00	O
ATOM	3699	CB	GLU	B	58	51.424	28.082	-5.932	1.00	33.85	C
ATOM	3700	CG	GLU	B	58	50.700	26.895	-5.240	1.00	37.27	C
ATOM	3701	CD	GLU	B	58	51.269	25.526	-5.694	1.00	39.22	C
ATOM	3702	OE1	GLU	B	58	51.414	25.354	-6.932	1.00	41.64	O
ATOM	3703	OE2	GLU	B	58	51.572	24.628	-4.845	1.00	39.58	O
ATOM	3704	N	GLN	B	59	53.658	30.362	-6.056	1.00	31.31	N
ATOM	3705	CA	GLN	B	59	54.314	31.466	-6.768	1.00	30.91	C
ATOM	3706	C	GLN	B	59	55.806	31.189	-6.990	1.00	30.10	C
ATOM	3707	O	GLN	B	59	56.338	31.498	-8.049	1.00	30.05	O
ATOM	3708	CB	GLN	B	59	54.163	32.789	-5.998	1.00	30.87	C
ATOM	3709	CG	GLN	B	59	52.727	33.343	-5.908	1.00	31.40	C
ATOM	3710	CD	GLN	B	59	52.694	34.639	-5.090	1.00	32.64	C
ATOM	3711	OE1	GLN	B	59	53.545	34.839	-4.226	1.00	33.61	O
ATOM	3712	NE2	GLN	B	59	51.713	35.503	-5.345	1.00	32.67	N
ATOM	3713	N	LEU	B	60	56.479	30.611	-6.002	1.00	29.78	N
ATOM	3714	CA	LEU	B	60	57.919	30.329	-6.150	1.00	29.94	C
ATOM	3715	C	LEU	B	60	58.179	29.326	-7.316	1.00	30.93	C
ATOM	3716	O	LEU	B	60	59.293	29.242	-7.851	1.00	29.76	O
ATOM	3717	CB	LEU	B	60	58.497	29.793	-4.823	1.00	28.95	C
ATOM	3718	CG	LEU	B	60	58.605	30.835	-3.671	1.00	28.79	C
ATOM	3719	CD1	LEU	B	60	58.886	30.132	-2.334	1.00	27.82	C
ATOM	3720	CD2	LEU	B	60	59.739	31.831	-3.995	1.00	27.78	C
ATOM	3721	N	HIS	B	61	57.148	28.573	-7.692	1.00	32.10	N
ATOM	3722	CA	HIS	B	61	57.267	27.612	-8.798	1.00	34.03	C
ATOM	3723	C	HIS	B	61	56.656	28.149	-10.088	1.00	35.04	C
ATOM	3724	O	HIS	B	61	57.139	27.829	-11.166	1.00	36.26	O
ATOM	3725	CB	HIS	B	61	56.587	26.304	-8.419	1.00	34.00	C
ATOM	3726	CG	HIS	B	61	57.254	25.610	-7.279	1.00	35.30	C
ATOM	3727	ND1	HIS	B	61	58.305	24.732	-7.456	1.00	35.16	N
ATOM	3728	CD2	HIS	B	61	57.086	25.727	-5.940	1.00	35.18	C
ATOM	3729	CE1	HIS	B	61	58.754	24.340	-6.276	1.00	35.20	C
ATOM	3730	NE2	HIS	B	61	58.036	24.927	-5.339	1.00	35.30	N
ATOM	3731	N	ASP	B	62	55.619	28.984	-9.987	1.00	35.55	N
ATOM	3732	CA	ASP	B	62	54.947	29.509	-11.169	1.00	35.77	C
ATOM	3733	C	ASP	B	62	55.570	30.766	-11.756	1.00	36.02	C
ATOM	3734	O	ASP	B	62	55.504	30.973	-12.957	1.00	36.06	O
ATOM	3735	CB	ASP	B	62	53.458	29.808	-10.894	1.00	36.47	C
ATOM	3736	CG	ASP	B	62	52.651	28.557	-10.493	1.00	38.70	C
ATOM	3737	OD1	ASP	B	62	53.082	27.421	-10.799	1.00	39.50	O
ATOM	3738	OD2	ASP	B	62	51.564	28.707	-9.875	1.00	39.88	O
ATOM	3739	N	LEU	B	63	56.159	31.621	-10.928	1.00	35.30	N
ATOM	3740	CA	LEU	B	63	56.716	32.869	-11.458	1.00	34.98	C
ATOM	3741	C	LEU	B	63	58.206	32.741	-11.738	1.00	34.26	C
ATOM	3742	O	LEU	B	63	58.849	31.849	-11.211	1.00	33.35	O
ATOM	3743	CB	LEU	B	63	56.444	34.018	-10.473	1.00	35.02	C
ATOM	3744	CG	LEU	B	63	54.987	34.164	-10.001	1.00	35.37	C
ATOM	3745	CD1	LEU	B	63	54.913	35.242	-8.937	1.00	35.32	C
ATOM	3746	CD2	LEU	B	63	54.055	34.521	-11.183	1.00	35.86	C
ATOM	3747	N	GLU	B	64	58.745	33.624	-12.580	1.00	34.49	N
ATOM	3748	CA	GLU	B	64	60.175	33.585	-12.910	1.00	34.65	C
ATOM	3749	C	GLU	B	64	60.936	33.767	-11.588	1.00	33.38	C
ATOM	3750	O	GLU	B	64	61.988	33.178	-11.376	1.00	32.93	O
ATOM	3751	CB	GLU	B	64	60.501	34.689	-13.917	1.00	36.91	C
ATOM	3752	CG	GLU	B	64	61.795	34.466	-14.667	1.00	40.49	C
ATOM	3753	CD	GLU	B	64	62.125	35.595	-15.674	1.00	42.23	C
ATOM	3754	OE1	GLU	B	64	61.196	36.335	-16.119	1.00	43.77	O
ATOM	3755	OE2	GLU	B	64	63.322	35.728	-16.032	1.00	42.69	O
ATOM	3756	N	TRP	B	65	60.390	34.619	-10.720	1.00	31.93	N
ATOM	3757	CA	TRP	B	65	60.877	34.815	-9.356	1.00	30.55	C
ATOM	3758	C	TRP	B	65	59.873	35.685	-8.600	1.00	29.91	C
ATOM	3759	O	TRP	B	65	59.043	36.366	-9.206	1.00	29.92	O
ATOM	3760	CB	TRP	B	65	62.299	35.412	-9.281	1.00	30.60	C
ATOM	3761	CG	TRP	B	65	62.432	36.894	-9.526	1.00	31.17	C
ATOM	3762	CD1	TRP	B	65	62.572	37.879	-8.579	1.00	31.19	C
ATOM	3763	CD2	TRP	B	65	62.567	37.539	-10.801	1.00	31.11	C
ATOM	3764	NE1	TRP	B	65	62.803	39.098	-9.195	1.00	30.80	N
ATOM	3765	CE2	TRP	B	65	62.804	38.916	-10.555	1.00	31.18	C
ATOM	3766	CE3	TRP	B	65	62.527	37.083	-12.131	1.00	31.41	C
ATOM	3767	CZ2	TRP	B	65	63.001	39.848	-11.597	1.00	30.44	C
ATOM	3768	CZ3	TRP	B	65	62.730	38.022	-13.177	1.00	30.93	C



ATOM	3769	CH2	TRP	B	65	62.962	39.373	-12.898	1.00	31.64	C
ATOM	3770	N	VAL	B	66	59.915	35.613	-7.275	1.00	28.91	N
ATOM	3771	CA	VAL	B	66	59.017	36.403	-6.431	1.00	28.01	C
ATOM	3772	C	VAL	B	66	59.850	37.536	-5.827	1.00	27.73	C
ATOM	3773	O	VAL	B	66	60.917	37.291	-5.249	1.00	26.90	O
ATOM	3774	CB	VAL	B	66	58.455	35.544	-5.258	1.00	28.75	C
ATOM	3775	CG1	VAL	B	66	57.568	36.421	-4.329	1.00	27.38	C
ATOM	3776	CG2	VAL	B	66	57.663	34.352	-5.815	1.00	28.55	C
ATOM	3777	N	ASN	B	67	59.421	38.782	-5.988	1.00	27.45	N
ATOM	3778	CA	ASN	B	67	60.227	39.810	-5.348	1.00	27.57	C
ATOM	3779	C	ASN	B	67	59.376	40.617	-4.392	1.00	27.00	C
ATOM	3780	O	ASN	B	67	58.149	40.643	-4.513	1.00	26.92	O
ATOM	3781	CB	ASN	B	67	61.001	40.684	-6.355	1.00	28.05	C
ATOM	3782	CG	ASN	B	67	60.116	41.439	-7.320	1.00	30.16	C
ATOM	3783	OD1	ASN	B	67	58.879	41.360	-7.274	1.00	30.87	O
ATOM	3784	ND2	ASN	B	67	60.763	42.197	-8.223	1.00	29.76	N
ATOM	3785	N	ALA	B	68	60.033	41.252	-3.428	1.00	25.88	N
ATOM	3786	CA	ALA	B	68	59.317	42.013	-2.402	1.00	24.74	C
ATOM	3787	C	ALA	B	68	60.156	43.186	-1.885	1.00	24.26	C
ATOM	3788	O	ALA	B	68	61.363	43.298	-2.195	1.00	24.50	O
ATOM	3789	CB	ALA	B	68	58.955	41.073	-1.244	1.00	23.67	C
ATOM	3790	N	LEU	B	69	59.502	44.060	-1.118	1.00	23.13	N
ATOM	3791	CA	LEU	B	69	60.125	45.244	-0.507	1.00	22.24	C
ATOM	3792	C	LEU	B	69	59.717	45.212	0.992	1.00	22.96	C
ATOM	3793	O	LEU	B	69	58.563	44.847	1.300	1.00	21.88	O
ATOM	3794	CB	LEU	B	69	59.557	46.527	-1.137	1.00	21.61	C
ATOM	3795	CG	LEU	B	69	59.785	46.726	-2.644	1.00	22.49	C
ATOM	3796	CD1	LEU	B	69	59.060	47.989	-3.134	1.00	22.13	C
ATOM	3797	CD2	LEU	B	69	61.295	46.846	-2.890	1.00	21.59	C
ATOM	3798	N	GLY	B	70	60.652	45.567	1.882	1.00	22.42	N
ATOM	3799	CA	GLY	B	70	60.373	45.585	3.304	1.00	23.03	C
ATOM	3800	C	GLY	B	70	59.250	46.572	3.591	1.00	23.23	C
ATOM	3801	O	GLY	B	70	59.264	47.699	3.085	1.00	23.40	O
ATOM	3802	N	ALA	B	71	58.270	46.138	4.386	1.00	23.33	N
ATOM	3803	CA	ALA	B	71	57.127	46.972	4.777	1.00	22.30	C
ATOM	3804	C	ALA	B	71	57.104	47.021	6.304	1.00	22.06	C
ATOM	3805	O	ALA	B	71	57.220	45.973	6.961	1.00	21.30	O
ATOM	3806	CB	ALA	B	71	55.790	46.343	4.254	1.00	21.17	C
ATOM	3807	N	LEU	B	72	56.984	48.218	6.881	1.00	21.92	N
ATOM	3808	CA	LEU	B	72	56.942	48.301	8.345	1.00	21.89	C
ATOM	3809	C	LEU	B	72	55.601	48.826	8.854	1.00	21.60	C
ATOM	3810	O	LEU	B	72	55.407	48.961	10.069	1.00	21.28	O
ATOM	3811	CB	LEU	B	72	58.095	49.164	8.887	1.00	21.90	C
ATOM	3812	CG	LEU	B	72	58.065	50.644	8.484	1.00	22.28	C
ATOM	3813	CD1	LEU	B	72	58.057	51.512	9.798	1.00	21.34	C
ATOM	3814	CD2	LEU	B	72	59.322	50.976	7.593	1.00	22.45	C
ATOM	3815	N	THR	B	73	54.690	49.192	7.948	1.00	21.21	N
ATOM	3816	CA	THR	B	73	53.332	49.583	8.395	1.00	20.67	C
ATOM	3817	C	THR	B	73	52.287	48.904	7.468	1.00	20.15	C
ATOM	3818	O	THR	B	73	52.616	48.429	6.370	1.00	19.45	O
ATOM	3819	CB	THR	B	73	53.076	51.128	8.401	1.00	20.58	C
ATOM	3820	OG1	THR	B	73	52.659	51.559	7.094	1.00	20.24	O
ATOM	3821	CG2	THR	B	73	54.344	51.905	8.820	1.00	19.98	C
ATOM	3822	N	GLY	B	74	51.042	48.849	7.938	1.00	19.76	N
ATOM	3823	CA	GLY	B	74	49.960	48.266	7.177	1.00	19.03	C
ATOM	3824	C	GLY	B	74	49.771	48.999	5.863	1.00	20.28	C
ATOM	3825	O	GLY	B	74	49.703	48.373	4.814	1.00	20.09	O
ATOM	3826	N	ASN	B	75	49.686	50.329	5.889	1.00	20.90	N
ATOM	3827	CA	ASN	B	75	49.498	51.069	4.630	1.00	21.33	C
ATOM	3828	C	ASN	B	75	50.663	50.819	3.625	1.00	22.18	C
ATOM	3829	O	ASN	B	75	50.430	50.790	2.423	1.00	21.75	O
ATOM	3830	CB	ASN	B	75	49.388	52.572	4.896	1.00	21.18	C
ATOM	3831	CG	ASN	B	75	48.062	52.988	5.567	1.00	22.23	C
ATOM	3832	OD1	ASN	B	75	47.236	52.159	6.032	1.00	23.82	O
ATOM	3833	ND2	ASN	B	75	47.876	54.290	5.656	1.00	20.77	N
ATOM	3834	N	MET	B	76	51.908	50.665	4.107	1.00	22.06	N
ATOM	3835	CA	MET	B	76	53.012	50.393	3.182	1.00	23.55	C
ATOM	3836	C	MET	B	76	52.733	49.120	2.392	1.00	23.45	C
ATOM	3837	O	MET	B	76	52.895	49.084	1.155	1.00	23.46	O
ATOM	3838	CB	MET	B	76	54.329	50.146	3.902	1.00	24.01	C
ATOM	3839	CG	MET	B	76	54.994	51.365	4.382	1.00	26.63	C
ATOM	3840	SD	MET	B	76	56.716	50.983	4.784	1.00	25.89	S
ATOM	3841	CE	MET	B	76	57.166	52.637	5.332	1.00	25.25	C
ATOM	3842	N	ALA	B	77	52.349	48.064	3.113	1.00	22.38	N
ATOM	3843	CA	ALA	B	77	52.064	46.784	2.446	1.00	22.82	C
ATOM	3844	C	ALA	B	77	50.909	46.909	1.452	1.00	22.64	C
ATOM	3845	O	ALA	B	77	50.976	46.327	0.367	1.00	22.75	O
ATOM	3846	CB	ALA	B	77	51.756	45.698	3.469	1.00	22.30	C
ATOM	3847	N	VAL	B	78	49.861	47.654	1.816	1.00	22.07	N
ATOM	3848	CA	VAL	B	78	48.705	47.849	0.931	1.00	22.30	C



ATOM	3849	C	VAL	B	78	49.168	48.493	-0.378	1.00	22.75	C
ATOM	3850	O	VAL	B	78	48.760	48.069	-1.483	1.00	22.20	O
ATOM	3851	CB	VAL	B	78	47.616	48.790	1.586	1.00	22.04	C
ATOM	3852	CG1	VAL	B	78	46.501	49.207	0.558	1.00	21.35	C
ATOM	3853	CG2	VAL	B	78	46.964	48.063	2.773	1.00	20.72	C
ATOM	3854	N	GLN	B	79	49.991	49.533	-0.271	1.00	22.35	N
ATOM	3855	CA	GLN	B	79	50.471	50.193	-1.489	1.00	22.87	C
ATOM	3856	C	GLN	B	79	51.336	49.240	-2.322	1.00	23.49	C
ATOM	3857	O	GLN	B	79	51.296	49.303	-3.557	1.00	24.29	O
ATOM	3858	CB	GLN	B	79	51.282	51.481	-1.185	1.00	21.97	C
ATOM	3859	CG	GLN	B	79	50.468	52.691	-0.608	1.00	21.89	C
ATOM	3860	CD	GLN	B	79	49.178	52.967	-1.374	1.00	21.91	C
ATOM	3861	OE1	GLN	B	79	49.103	52.772	-2.614	1.00	23.11	O
ATOM	3862	NE2	GLN	B	79	48.158	53.429	-0.661	1.00	21.39	N
ATOM	3863	N	GLN	B	80	52.116	48.380	-1.669	1.00	22.93	N
ATOM	3864	CA	GLN	B	80	52.957	47.442	-2.405	1.00	23.74	C
ATOM	3865	C	GLN	B	80	52.076	46.505	-3.260	1.00	24.96	C
ATOM	3866	O	GLN	B	80	52.372	46.240	-4.445	1.00	23.94	O
ATOM	3867	CB	GLN	B	80	53.823	46.632	-1.429	1.00	23.36	C
ATOM	3868	CG	GLN	B	80	54.916	47.515	-0.787	1.00	22.20	C
ATOM	3869	CD	GLN	B	80	55.673	46.809	0.313	1.00	23.49	C
ATOM	3870	OE1	GLN	B	80	55.353	45.667	0.674	1.00	23.12	O
ATOM	3871	NE2	GLN	B	80	56.672	47.484	0.870	1.00	22.69	N
ATOM	3872	N	VAL	B	81	50.986	46.020	-2.669	1.00	24.64	N
ATOM	3873	CA	VAL	B	81	50.104	45.129	-3.407	1.00	25.84	C
ATOM	3874	C	VAL	B	81	49.362	45.917	-4.480	1.00	26.68	C
ATOM	3875	O	VAL	B	81	49.255	45.465	-5.623	1.00	27.17	O
ATOM	3876	CB	VAL	B	81	49.117	44.425	-2.459	1.00	25.54	C
ATOM	3877	CG1	VAL	B	81	48.106	43.613	-3.272	1.00	25.37	C
ATOM	3878	CG2	VAL	B	81	49.900	43.500	-1.533	1.00	25.81	C
ATOM	3879	N	ARG	B	82	48.868	47.098	-4.118	1.00	26.89	N
ATOM	3880	CA	ARG	B	82	48.165	47.940	-5.069	1.00	27.94	C
ATOM	3881	C	ARG	B	82	49.052	48.195	-6.284	1.00	27.87	C
ATOM	3882	O	ARG	B	82	48.550	48.232	-7.419	1.00	27.86	O
ATOM	3883	CB	ARG	B	82	47.785	49.283	-4.432	1.00	28.99	C
ATOM	3884	CG	ARG	B	82	47.342	50.347	-5.396	1.00	31.37	C
ATOM	3885	CD	ARG	B	82	45.873	50.649	-5.207	1.00	34.87	C
ATOM	3886	NE	ARG	B	82	45.029	49.782	-6.013	1.00	37.56	N
ATOM	3887	CZ	ARG	B	82	43.737	49.582	-5.773	1.00	38.40	C
ATOM	3888	NH1	ARG	B	82	43.139	50.174	-4.752	1.00	40.91	N
ATOM	3889	NH2	ARG	B	82	43.040	48.799	-6.555	1.00	40.23	N
ATOM	3890	N	ALA	B	83	50.344	48.373	-6.045	1.00	26.82	N
ATOM	3891	CA	ALA	B	83	51.322	48.665	-7.106	1.00	27.27	C
ATOM	3892	C	ALA	B	83	51.711	47.450	-7.928	1.00	27.66	C
ATOM	3893	O	ALA	B	83	52.479	47.576	-8.888	1.00	28.15	O
ATOM	3894	CB	ALA	B	83	52.603	49.317	-6.508	1.00	26.12	C
ATOM	3895	N	GLY	B	84	51.224	46.281	-7.530	1.00	27.58	N
ATOM	3896	CA	GLY	B	84	51.501	45.063	-8.276	1.00	27.96	C
ATOM	3897	C	GLY	B	84	52.424	44.015	-7.703	1.00	28.09	C
ATOM	3898	O	GLY	B	84	52.682	43.018	-8.371	1.00	27.87	O
ATOM	3899	N	LEU	B	85	52.926	44.202	-6.482	1.00	27.08	N
ATOM	3900	CA	LEU	B	85	53.838	43.212	-5.937	1.00	26.58	C
ATOM	3901	C	LEU	B	85	53.016	42.031	-5.434	1.00	27.02	C
ATOM	3902	O	LEU	B	85	51.859	42.197	-5.034	1.00	25.78	O
ATOM	3903	CB	LEU	B	85	54.692	43.829	-4.829	1.00	25.79	C
ATOM	3904	CG	LEU	B	85	55.590	45.002	-5.313	1.00	25.85	C
ATOM	3905	CD1	LEU	B	85	56.509	45.426	-4.147	1.00	24.99	C
ATOM	3906	CD2	LEU	B	85	56.463	44.589	-6.524	1.00	25.85	C
ATOM	3907	N	LYS	B	86	53.621	40.850	-5.449	1.00	27.37	N
ATOM	3908	CA	LYS	B	86	52.904	39.649	-5.091	1.00	29.40	C
ATOM	3909	C	LYS	B	86	53.252	39.062	-3.749	1.00	29.04	C
ATOM	3910	O	LYS	B	86	52.658	38.055	-3.374	1.00	30.38	O
ATOM	3911	CB	LYS	B	86	53.112	38.567	-6.168	1.00	31.51	C
ATOM	3912	CG	LYS	B	86	52.741	39.003	-7.589	1.00	34.82	C
ATOM	3913	CD	LYS	B	86	51.361	39.638	-7.600	1.00	37.64	C
ATOM	3914	CE	LYS	B	86	50.906	40.061	-9.039	1.00	39.62	C
ATOM	3915	NZ	LYS	B	86	50.744	38.870	-9.908	1.00	41.05	N
ATOM	3916	N	ALA	B	87	54.213	39.665	-3.047	1.00	27.28	N
ATOM	3917	CA	ALA	B	87	54.618	39.202	-1.732	1.00	26.11	C
ATOM	3918	C	ALA	B	87	55.059	40.407	-0.901	1.00	25.91	C
ATOM	3919	O	ALA	B	87	55.389	41.470	-1.465	1.00	24.38	O
ATOM	3920	CB	ALA	B	87	55.784	38.225	-1.843	1.00	25.84	C
ATOM	3921	N	ILE	B	88	55.066	40.238	0.427	1.00	25.24	N
ATOM	3922	CA	ILE	B	88	55.525	41.307	1.330	1.00	25.19	C
ATOM	3923	C	ILE	B	88	56.719	40.811	2.154	1.00	24.99	C
ATOM	3924	O	ILE	B	88	56.725	39.666	2.607	1.00	25.88	O
ATOM	3925	CB	ILE	B	88	54.377	41.738	2.263	1.00	25.77	C
ATOM	3926	CG1	ILE	B	88	53.224	42.235	1.383	1.00	27.06	C
ATOM	3927	CG2	ILE	B	88	54.830	42.906	3.209	1.00	24.86	C
ATOM	3928	CD1	ILE	B	88	51.991	42.346	2.092	1.00	29.40	C



ATOM	3929	N	TYR	B	89	57.757	41.624	2.294	1.00	24.36	N
ATOM	3930	CA	TYR	B	89	58.898	41.236	3.114	1.00	23.99	C
ATOM	3931	C	TYR	B	89	58.796	42.019	4.428	1.00	24.01	C
ATOM	3932	O	TYR	B	89	58.682	43.238	4.415	1.00	24.95	O
ATOM	3933	CB	TYR	B	89	60.252	41.568	2.442	1.00	23.37	C
ATOM	3934	CG	TYR	B	89	61.420	41.221	3.355	1.00	22.22	C
ATOM	3935	CD1	TYR	B	89	61.668	39.898	3.725	1.00	22.28	C
ATOM	3936	CD2	TYR	B	89	62.209	42.234	3.930	1.00	22.01	C
ATOM	3937	CE1	TYR	B	89	62.674	39.595	4.670	1.00	22.35	C
ATOM	3938	CE2	TYR	B	89	63.208	41.955	4.855	1.00	21.29	C
ATOM	3939	CZ	TYR	B	89	63.424	40.641	5.222	1.00	22.79	C
ATOM	3940	OH	TYR	B	89	64.352	40.363	6.177	1.00	24.23	O
ATOM	3941	N	LEU	B	90	58.814	41.336	5.561	1.00	23.68	N
ATOM	3942	CA	LEU	B	90	58.711	42.054	6.825	1.00	23.25	C
ATOM	3943	C	LEU	B	90	60.090	42.040	7.465	1.00	23.36	C
ATOM	3944	O	LEU	B	90	60.512	41.046	8.063	1.00	23.14	O
ATOM	3945	CB	LEU	B	90	57.716	41.365	7.751	1.00	23.14	C
ATOM	3946	CG	LEU	B	90	56.995	42.337	8.697	1.00	23.64	C
ATOM	3947	CD1	LEU	B	90	55.909	41.609	9.441	1.00	23.17	C
ATOM	3948	CD2	LEU	B	90	58.009	42.899	9.720	1.00	22.74	C
ATOM	3949	N	SER	B	91	60.786	43.156	7.325	1.00	22.70	N
ATOM	3950	CA	SER	B	91	62.127	43.299	7.842	1.00	22.92	C
ATOM	3951	C	SER	B	91	62.238	43.444	9.354	1.00	22.46	C
ATOM	3952	O	SER	B	91	61.550	44.281	9.950	1.00	22.79	O
ATOM	3953	CB	SER	B	91	62.766	44.539	7.179	1.00	22.60	C
ATOM	3954	OG	SER	B	91	63.959	44.900	7.837	1.00	22.21	O
ATOM	3955	N	GLY	B	92	63.122	42.654	9.974	1.00	22.00	N
ATOM	3956	CA	GLY	B	92	63.345	42.778	11.402	1.00	21.86	C
ATOM	3957	C	GLY	B	92	64.121	44.053	11.712	1.00	23.17	C
ATOM	3958	O	GLY	B	92	63.910	44.715	12.756	1.00	23.50	O
ATOM	3959	N	TRP	B	93	65.005	44.430	10.787	1.00	22.75	N
ATOM	3960	CA	TRP	B	93	65.816	45.643	10.929	1.00	22.49	C
ATOM	3961	C	TRP	B	93	64.874	46.881	11.021	1.00	21.76	C
ATOM	3962	O	TRP	B	93	65.054	47.746	11.872	1.00	21.83	O
ATOM	3963	CB	TRP	B	93	66.756	45.744	9.702	1.00	22.69	C
ATOM	3964	CG	TRP	B	93	67.817	46.791	9.794	1.00	24.21	C
ATOM	3965	CD1	TRP	B	93	69.156	46.581	9.979	1.00	24.28	C
ATOM	3966	CD2	TRP	B	93	67.640	48.222	9.704	1.00	23.86	C
ATOM	3967	NE1	TRP	B	93	69.819	47.787	10.014	1.00	25.18	N
ATOM	3968	CE2	TRP	B	93	68.919	48.808	9.847	1.00	24.21	C
ATOM	3969	CE3	TRP	B	93	66.527	49.060	9.515	1.00	24.14	C
ATOM	3970	CZ2	TRP	B	93	69.125	50.189	9.814	1.00	24.67	C
ATOM	3971	CZ3	TRP	B	93	66.735	50.480	9.474	1.00	23.85	C
ATOM	3972	CH2	TRP	B	93	68.022	51.009	9.628	1.00	24.00	C
ATOM	3973	N	GLN	B	94	63.886	46.966	10.134	1.00	21.66	N
ATOM	3974	CA	GLN	B	94	62.947	48.098	10.131	1.00	21.60	C
ATOM	3975	C	GLN	B	94	62.091	48.148	11.410	1.00	21.51	C
ATOM	3976	O	GLN	B	94	61.714	49.220	11.897	1.00	22.17	O
ATOM	3977	CB	GLN	B	94	62.030	48.008	8.898	1.00	21.31	C
ATOM	3978	CG	GLN	B	94	62.771	48.068	7.540	1.00	21.19	C
ATOM	3979	CD	GLN	B	94	61.826	48.203	6.353	1.00	22.31	C
ATOM	3980	OE1	GLN	B	94	60.717	47.591	6.320	1.00	23.35	O
ATOM	3981	NE2	GLN	B	94	62.250	48.968	5.358	1.00	20.69	N
ATOM	3982	N	VAL	B	95	61.749	46.968	11.924	1.00	21.03	N
ATOM	3983	CA	VAL	B	95	60.939	46.843	13.143	1.00	20.45	C
ATOM	3984	C	VAL	B	95	61.784	47.366	14.283	1.00	19.99	C
ATOM	3985	O	VAL	B	95	61.322	48.164	15.111	1.00	20.58	O
ATOM	3986	CB	VAL	B	95	60.526	45.353	13.334	1.00	20.14	C
ATOM	3987	CG1	VAL	B	95	60.193	45.048	14.779	1.00	20.57	C
ATOM	3988	CG2	VAL	B	95	59.323	45.057	12.389	1.00	19.54	C
ATOM	3989	N	ALA	B	96	63.039	46.952	14.302	1.00	19.92	N
ATOM	3990	CA	ALA	B	96	63.970	47.429	15.316	1.00	21.33	C
ATOM	3991	C	ALA	B	96	64.072	48.960	15.248	1.00	21.52	C
ATOM	3992	O	ALA	B	96	63.995	49.669	16.272	1.00	21.79	O
ATOM	3993	CB	ALA	B	96	65.365	46.817	15.076	1.00	21.19	C
ATOM	3994	N	GLY	B	97	64.211	49.476	14.034	1.00	21.73	N
ATOM	3995	CA	GLY	B	97	64.384	50.912	13.898	1.00	21.25	C
ATOM	3996	C	GLY	B	97	63.137	51.769	14.028	1.00	22.34	C
ATOM	3997	O	GLY	B	97	63.282	52.922	14.455	1.00	22.53	O
ATOM	3998	N	ASP	B	98	61.921	51.245	13.755	1.00	20.69	N
ATOM	3999	CA	ASP	B	98	60.766	52.145	13.777	1.00	20.94	C
ATOM	4000	C	ASP	B	98	59.386	51.475	14.009	1.00	21.31	C
ATOM	4001	O	ASP	B	98	58.341	52.130	13.855	1.00	20.41	O
ATOM	4002	CB	ASP	B	98	60.779	52.929	12.436	1.00	20.30	C
ATOM	4003	CG	ASP	B	98	59.974	54.248	12.473	1.00	21.12	C
ATOM	4004	OD1	ASP	B	98	59.864	54.883	13.543	1.00	22.11	O
ATOM	4005	OD2	ASP	B	98	59.453	54.655	11.407	1.00	21.65	O
ATOM	4006	N	ALA	B	99	59.374	50.193	14.392	1.00	20.73	N
ATOM	4007	CA	ALA	B	99	58.087	49.540	14.608	1.00	21.50	C
ATOM	4008	C	ALA	B	99	58.111	48.346	15.556	1.00	22.12	C



ATOM	4009	O	ALA	B	99	57.567	47.286	15.209	1.00	21.99	O
ATOM	4010	CB	ALA	B	99	57.492	49.130	13.243	1.00	21.37	C
ATOM	4011	N	ASN	B	100	58.700	48.509	16.750	1.00	21.00	N
ATOM	4012	CA	ASN	B	100	58.754	47.402	17.702	1.00	20.81	C
ATOM	4013	C	ASN	B	100	58.068	47.745	19.017	1.00	20.67	C
ATOM	4014	O	ASN	B	100	57.833	48.928	19.342	1.00	20.08	O
ATOM	4015	CB	ASN	B	100	60.191	46.894	17.935	1.00	20.59	C
ATOM	4016	CG	ASN	B	100	61.049	47.881	18.687	1.00	21.63	C
ATOM	4017	OD1	ASN	B	100	61.829	48.639	18.068	1.00	25.09	O
ATOM	4018	ND2	ASN	B	100	60.939	47.892	19.985	1.00	18.46	N
ATOM	4019	N	LEU	B	101	57.747	46.705	19.777	1.00	19.86	N
ATOM	4020	CA	LEU	B	101	56.940	46.893	20.973	1.00	20.64	C
ATOM	4021	C	LEU	B	101	57.583	47.583	22.178	1.00	20.83	C
ATOM	4022	O	LEU	B	101	56.889	47.850	23.165	1.00	20.84	O
ATOM	4023	CB	LEU	B	101	56.298	45.532	21.380	1.00	20.03	C
ATOM	4024	CG	LEU	B	101	55.403	44.949	20.254	1.00	21.49	C
ATOM	4025	CD1	LEU	B	101	55.097	43.468	20.534	1.00	21.76	C
ATOM	4026	CD2	LEU	B	101	54.077	45.761	20.161	1.00	22.15	C
ATOM	4027	N	SER	B	102	58.881	47.866	22.125	1.00	20.23	N
ATOM	4028	CA	SER	B	102	59.486	48.604	23.247	1.00	20.59	C
ATOM	4029	C	SER	B	102	59.187	50.107	23.074	1.00	20.49	C
ATOM	4030	O	SER	B	102	59.279	50.873	24.049	1.00	21.40	O
ATOM	4031	CB	SER	B	102	61.026	48.453	23.250	1.00	20.87	C
ATOM	4032	OG	SER	B	102	61.619	49.207	22.183	1.00	21.35	O
ATOM	4033	N	GLY	B	103	58.869	50.515	21.840	1.00	20.34	N
ATOM	4034	CA	GLY	B	103	58.639	51.925	21.535	1.00	20.42	C
ATOM	4035	C	GLY	B	103	59.961	52.646	21.224	1.00	21.04	C
ATOM	4036	O	GLY	B	103	59.987	53.836	20.853	1.00	20.16	O
ATOM	4037	N	HIS	B	104	61.071	51.922	21.354	1.00	20.86	N
ATOM	4038	CA	HIS	B	104	62.380	52.520	21.103	1.00	21.23	C
ATOM	4039	C	HIS	B	104	62.964	52.300	19.727	1.00	21.61	C
ATOM	4040	O	HIS	B	104	62.566	51.372	19.012	1.00	21.41	O
ATOM	4041	CB	HIS	B	104	63.387	52.040	22.163	1.00	21.83	C
ATOM	4042	CG	HIS	B	104	63.133	52.623	23.522	1.00	23.10	C
ATOM	4043	ND1	HIS	B	104	63.273	53.974	23.783	1.00	23.24	N
ATOM	4044	CD2	HIS	B	104	62.753	52.044	24.693	1.00	22.99	C
ATOM	4045	CE1	HIS	B	104	62.999	54.203	25.063	1.00	24.61	C
ATOM	4046	NE2	HIS	B	104	62.677	53.049	25.637	1.00	24.32	N
ATOM	4047	N	THR	B	105	63.893	53.184	19.334	1.00	21.80	N
ATOM	4048	CA	THR	B	105	64.599	53.024	18.049	1.00	20.95	C
ATOM	4049	C	THR	B	105	65.837	52.179	18.355	1.00	21.73	C
ATOM	4050	O	THR	B	105	66.638	52.533	19.223	1.00	21.15	O
ATOM	4051	CB	THR	B	105	65.067	54.387	17.503	1.00	21.77	C
ATOM	4052	OG1	THR	B	105	63.900	55.162	17.195	1.00	22.19	O
ATOM	4053	CG2	THR	B	105	65.917	54.220	16.210	1.00	21.12	C
ATOM	4054	N	TYR	B	106	66.007	51.077	17.633	1.00	21.54	N
ATOM	4055	CA	TYR	B	106	67.147	50.213	17.864	1.00	22.19	C
ATOM	4056	C	TYR	B	106	67.912	49.807	16.608	1.00	22.76	C
ATOM	4057	O	TYR	B	106	67.349	49.777	15.507	1.00	23.70	O
ATOM	4058	CB	TYR	B	106	66.697	48.874	18.467	1.00	21.79	C
ATOM	4059	CG	TYR	B	106	66.189	48.903	19.882	1.00	22.43	C
ATOM	4060	CD1	TYR	B	106	66.923	49.526	20.903	1.00	21.17	C
ATOM	4061	CD2	TYR	B	106	64.985	48.244	20.222	1.00	22.25	C
ATOM	4062	CE1	TYR	B	106	66.472	49.501	22.221	1.00	21.87	C
ATOM	4063	CE2	TYR	B	106	64.533	48.192	21.543	1.00	21.48	C
ATOM	4064	CZ	TYR	B	106	65.266	48.825	22.534	1.00	22.36	C
ATOM	4065	OH	TYR	B	106	64.794	48.824	23.831	1.00	21.28	O
ATOM	4066	N	PRO	B	107	69.210	49.474	16.767	1.00	23.28	N
ATOM	4067	CA	PRO	B	107	69.987	49.016	15.618	1.00	23.89	C
ATOM	4068	C	PRO	B	107	69.630	47.503	15.585	1.00	24.96	C
ATOM	4069	O	PRO	B	107	68.899	46.999	16.474	1.00	24.57	O
ATOM	4070	CB	PRO	B	107	71.452	49.270	16.024	1.00	24.42	C
ATOM	4071	CG	PRO	B	107	71.423	49.063	17.529	1.00	23.04	C
ATOM	4072	CD	PRO	B	107	70.088	49.811	17.901	1.00	23.79	C
ATOM	4073	N	ASP	B	108	70.172	46.783	14.592	1.00	25.20	N
ATOM	4074	CA	ASP	B	108	69.858	45.387	14.350	1.00	25.57	C
ATOM	4075	C	ASP	B	108	70.708	44.417	15.148	1.00	26.21	C
ATOM	4076	O	ASP	B	108	71.725	43.922	14.660	1.00	25.31	O
ATOM	4077	CB	ASP	B	108	69.982	45.163	12.836	1.00	26.38	C
ATOM	4078	CG	ASP	B	108	69.705	43.728	12.404	1.00	28.24	C
ATOM	4079	OD1	ASP	B	108	69.202	42.888	13.204	1.00	27.17	O
ATOM	4080	OD2	ASP	B	108	70.009	43.450	11.219	1.00	27.56	O
ATOM	4081	N	GLN	B	109	70.274	44.135	16.378	1.00	25.98	N
ATOM	4082	CA	GLN	B	109	70.988	43.221	17.256	1.00	26.68	C
ATOM	4083	C	GLN	B	109	70.011	42.456	18.157	1.00	26.17	C
ATOM	4084	O	GLN	B	109	70.332	42.211	19.340	1.00	25.98	O
ATOM	4085	CB	GLN	B	109	71.953	43.987	18.171	1.00	28.18	C
ATOM	4086	CG	GLN	B	109	73.379	44.038	17.662	1.00	32.84	C
ATOM	4087	CD	GLN	B	109	74.407	44.473	18.722	1.00	33.88	C
ATOM	4088	OE1	GLN	B	109	74.898	43.651	19.543	1.00	35.36	O



ATOM	4089	NE2	GLN	B	109	74.734	45.761	18.713	1.00	32.22	N
ATOM	4090	N	SER	B	110	68.824	42.124	17.637	1.00	24.63	N
ATOM	4091	CA	SER	B	110	67.841	41.390	18.442	1.00	24.17	C
ATOM	4092	C	SER	B	110	67.645	42.048	19.812	1.00	23.39	C
ATOM	4093	O	SER	B	110	67.673	41.379	20.857	1.00	23.38	O
ATOM	4094	CB	SER	B	110	68.288	39.917	18.606	1.00	23.74	C
ATOM	4095	OG	SER	B	110	68.204	39.270	17.335	1.00	24.33	O
ATOM	4096	N	LEU	B	111	67.404	43.352	19.797	1.00	22.87	N
ATOM	4097	CA	LEU	B	111	67.206	44.123	21.024	1.00	22.11	C
ATOM	4098	C	LEU	B	111	65.731	44.322	21.382	1.00	22.09	C
ATOM	4099	O	LEU	B	111	65.406	44.580	22.547	1.00	21.41	O
ATOM	4100	CB	LEU	B	111	67.819	45.521	20.868	1.00	23.68	C
ATOM	4101	CG	LEU	B	111	69.343	45.601	20.789	1.00	25.49	C
ATOM	4102	CD1	LEU	B	111	69.825	47.006	20.398	1.00	25.29	C
ATOM	4103	CD2	LEU	B	111	69.879	45.214	22.193	1.00	25.42	C
ATOM	4104	N	TYR	B	112	64.847	44.226	20.383	1.00	20.67	N
ATOM	4105	CA	TYR	B	112	63.429	44.485	20.621	1.00	21.39	C
ATOM	4106	C	TYR	B	112	62.681	43.273	21.204	1.00	20.84	C
ATOM	4107	O	TYR	B	112	63.197	42.168	21.181	1.00	21.73	O
ATOM	4108	CB	TYR	B	112	62.774	44.997	19.310	1.00	19.95	C
ATOM	4109	CG	TYR	B	112	62.931	44.057	18.105	1.00	21.26	C
ATOM	4110	CD1	TYR	B	112	62.079	42.951	17.947	1.00	20.54	C
ATOM	4111	CD2	TYR	B	112	63.916	44.286	17.118	1.00	19.93	C
ATOM	4112	CE1	TYR	B	112	62.185	42.077	16.830	1.00	20.59	C
ATOM	4113	CE2	TYR	B	112	64.038	43.426	15.987	1.00	21.63	C
ATOM	4114	CZ	TYR	B	112	63.155	42.323	15.864	1.00	21.52	C
ATOM	4115	OH	TYR	B	112	63.235	41.443	14.804	1.00	22.86	O
ATOM	4116	N	PRO	B	113	61.472	43.486	21.778	1.00	20.61	N
ATOM	4117	CA	PRO	B	113	60.719	42.354	22.336	1.00	20.34	C
ATOM	4118	C	PRO	B	113	60.444	41.344	21.229	1.00	19.97	C
ATOM	4119	O	PRO	B	113	60.052	41.716	20.110	1.00	20.50	O
ATOM	4120	CB	PRO	B	113	59.434	43.008	22.865	1.00	20.45	C
ATOM	4121	CG	PRO	B	113	59.931	44.396	23.322	1.00	20.71	C
ATOM	4122	CD	PRO	B	113	60.826	44.767	22.106	1.00	20.05	C
ATOM	4123	N	ALA	B	114	60.617	40.072	21.565	1.00	20.92	N
ATOM	4124	CA	ALA	B	114	60.472	38.960	20.616	1.00	20.51	C
ATOM	4125	C	ALA	B	114	59.131	38.787	19.914	1.00	21.30	C
ATOM	4126	O	ALA	B	114	59.077	38.096	18.891	1.00	21.60	O
ATOM	4127	CB	ALA	B	114	60.882	37.636	21.301	1.00	20.73	C
ATOM	4128	N	ASN	B	115	58.042	39.355	20.454	1.00	21.04	N
ATOM	4129	CA	ASN	B	115	56.763	39.250	19.747	1.00	20.14	C
ATOM	4130	C	ASN	B	115	56.504	40.462	18.843	1.00	20.61	C
ATOM	4131	O	ASN	B	115	55.393	40.623	18.324	1.00	19.70	O
ATOM	4132	CB	ASN	B	115	55.597	39.073	20.732	1.00	20.64	C
ATOM	4133	CG	ASN	B	115	55.514	40.211	21.774	1.00	21.77	C
ATOM	4134	OD1	ASN	B	115	56.526	40.825	22.135	1.00	21.13	O
ATOM	4135	ND2	ASN	B	115	54.307	40.459	22.288	1.00	20.88	N
ATOM	4136	N	SER	B	116	57.520	41.317	18.621	1.00	20.25	N
ATOM	4137	CA	SER	B	116	57.310	42.498	17.771	1.00	19.43	C
ATOM	4138	C	SER	B	116	57.020	42.192	16.294	1.00	19.85	C
ATOM	4139	O	SER	B	116	56.143	42.800	15.706	1.00	19.27	O
ATOM	4140	CB	SER	B	116	58.534	43.441	17.792	1.00	19.48	C
ATOM	4141	OG	SER	B	116	58.807	43.941	19.087	1.00	19.99	O
ATOM	4142	N	VAL	B	117	57.795	41.304	15.672	1.00	20.00	N
ATOM	4143	CA	VAL	B	117	57.554	41.022	14.259	1.00	19.69	C
ATOM	4144	C	VAL	B	117	56.154	40.371	14.099	1.00	19.39	C
ATOM	4145	O	VAL	B	117	55.383	40.763	13.200	1.00	19.60	O
ATOM	4146	CB	VAL	B	117	58.711	40.203	13.639	1.00	19.15	C
ATOM	4147	CG1	VAL	B	117	58.321	39.716	12.272	1.00	18.57	C
ATOM	4148	CG2	VAL	B	117	59.951	41.112	13.492	1.00	19.62	C
ATOM	4149	N	PRO	B	118	55.796	39.394	14.954	1.00	19.32	N
ATOM	4150	CA	PRO	B	118	54.445	38.796	14.836	1.00	19.93	C
ATOM	4151	C	PRO	B	118	53.365	39.898	14.888	1.00	20.79	C
ATOM	4152	O	PRO	B	118	52.383	39.846	14.156	1.00	20.99	O
ATOM	4153	CB	PRO	B	118	54.339	37.894	16.071	1.00	19.21	C
ATOM	4154	CG	PRO	B	118	55.787	37.362	16.168	1.00	19.49	C
ATOM	4155	CD	PRO	B	118	56.666	38.571	15.818	1.00	19.22	C
ATOM	4156	N	GLN	B	119	53.515	40.896	15.767	1.00	21.81	N
ATOM	4157	CA	GLN	B	119	52.484	41.957	15.806	1.00	21.64	C
ATOM	4158	C	GLN	B	119	52.385	42.710	14.475	1.00	20.60	C
ATOM	4159	O	GLN	B	119	51.305	43.058	14.026	1.00	19.64	O
ATOM	4160	CB	GLN	B	119	52.772	42.938	16.941	1.00	23.53	C
ATOM	4161	CG	GLN	B	119	52.336	42.355	18.305	1.00	27.11	C
ATOM	4162	CD	GLN	B	119	50.856	42.052	18.308	1.00	29.60	C
ATOM	4163	OE1	GLN	B	119	50.410	40.904	18.024	1.00	31.08	O
ATOM	4164	NE2	GLN	B	119	50.061	43.084	18.586	1.00	30.37	N
ATOM	4165	N	VAL	B	120	53.521	42.969	13.838	1.00	20.48	N
ATOM	4166	CA	VAL	B	120	53.511	43.687	12.562	1.00	19.58	C
ATOM	4167	C	VAL	B	120	52.936	42.773	11.445	1.00	20.25	C
ATOM	4168	O	VAL	B	120	52.275	43.255	10.510	1.00	19.15	O



ATOM	4169	CB	VAL	B	120	54.938	44.174	12.202	1.00	19.99	C
ATOM	4170	CG1	VAL	B	120	54.932	44.835	10.789	1.00	19.86	C
ATOM	4171	CG2	VAL	B	120	55.400	45.237	13.268	1.00	20.51	C
ATOM	4172	N	VAL	B	121	53.171	41.466	11.551	1.00	19.62	N
ATOM	4173	CA	VAL	B	121	52.584	40.522	10.578	1.00	20.06	C
ATOM	4174	C	VAL	B	121	51.068	40.615	10.677	1.00	19.88	C
ATOM	4175	O	VAL	B	121	50.351	40.705	9.661	1.00	20.45	O
ATOM	4176	CB	VAL	B	121	52.972	39.043	10.893	1.00	19.45	C
ATOM	4177	CG1	VAL	B	121	52.158	38.072	9.993	1.00	20.72	C
ATOM	4178	CG2	VAL	B	121	54.469	38.845	10.622	1.00	18.72	C
ATOM	4179	N	ARG	B	122	50.568	40.605	11.909	1.00	20.22	N
ATOM	4180	CA	ARG	B	122	49.111	40.668	12.091	1.00	20.49	C
ATOM	4181	C	ARG	B	122	48.556	42.003	11.568	1.00	20.75	C
ATOM	4182	O	ARG	B	122	47.454	42.049	10.964	1.00	20.30	O
ATOM	4183	CB	ARG	B	122	48.748	40.484	13.573	1.00	19.66	C
ATOM	4184	CG	ARG	B	122	47.255	40.580	13.879	1.00	19.98	C
ATOM	4185	CD	ARG	B	122	46.519	39.374	13.346	1.00	19.71	C
ATOM	4186	NE	ARG	B	122	45.889	39.660	12.056	1.00	21.90	N
ATOM	4187	CZ	ARG	B	122	45.057	38.823	11.428	1.00	21.81	C
ATOM	4188	NH1	ARG	B	122	44.784	37.636	11.973	1.00	21.57	N
ATOM	4189	NH2	ARG	B	122	44.421	39.207	10.312	1.00	22.04	N
ATOM	4190	N	ARG	B	123	49.298	43.081	11.829	1.00	20.22	N
ATOM	4191	CA	ARG	B	123	48.908	44.430	11.344	1.00	20.05	C
ATOM	4192	C	ARG	B	123	48.846	44.455	9.796	1.00	19.86	C
ATOM	4193	O	ARG	B	123	47.872	44.940	9.195	1.00	19.05	O
ATOM	4194	CB	ARG	B	123	49.934	45.481	11.842	1.00	19.91	C
ATOM	4195	CG	ARG	B	123	49.880	46.834	11.078	1.00	20.51	C
ATOM	4196	CD	ARG	B	123	48.511	47.486	11.267	1.00	20.24	C
ATOM	4197	NE	ARG	B	123	48.321	48.647	10.382	1.00	20.67	N
ATOM	4198	CZ	ARG	B	123	47.186	48.945	9.768	1.00	19.93	C
ATOM	4199	NH1	ARG	B	123	46.098	48.184	9.947	1.00	19.90	N
ATOM	4200	NH2	ARG	B	123	47.158	49.967	8.897	1.00	19.77	N
ATOM	4201	N	ILE	B	124	49.903	43.962	9.146	1.00	19.57	N
ATOM	4202	CA	ILE	B	124	49.907	43.945	7.679	1.00	20.80	C
ATOM	4203	C	ILE	B	124	48.716	43.124	7.136	1.00	20.78	C
ATOM	4204	O	ILE	B	124	47.977	43.580	6.265	1.00	20.64	O
ATOM	4205	CB	ILE	B	124	51.275	43.429	7.172	1.00	21.25	C
ATOM	4206	CG1	ILE	B	124	52.326	44.532	7.417	1.00	21.31	C
ATOM	4207	CG2	ILE	B	124	51.198	43.111	5.670	1.00	21.45	C
ATOM	4208	CD1	ILE	B	124	53.775	44.107	7.183	1.00	21.46	C
ATOM	4209	N	ASN	B	125	48.488	41.933	7.689	1.00	20.88	N
ATOM	4210	CA	ASN	B	125	47.332	41.163	7.238	1.00	20.69	C
ATOM	4211	C	ASN	B	125	46.051	41.971	7.459	1.00	21.67	C
ATOM	4212	O	ASN	B	125	45.193	42.022	6.557	1.00	21.46	O
ATOM	4213	CB	ASN	B	125	47.261	39.822	7.967	1.00	19.94	C
ATOM	4214	CG	ASN	B	125	48.043	38.760	7.244	1.00	19.33	C
ATOM	4215	OD1	ASN	B	125	48.140	38.803	6.035	1.00	20.21	O
ATOM	4216	ND2	ASN	B	125	48.586	37.814	7.959	1.00	19.58	N
ATOM	4217	N	ASN	B	126	45.913	42.622	8.625	1.00	20.88	N
ATOM	4218	CA	ASN	B	126	44.701	43.411	8.872	1.00	21.52	C
ATOM	4219	C	ASN	B	126	44.497	44.524	7.832	1.00	21.79	C
ATOM	4220	O	ASN	B	126	43.358	44.794	7.423	1.00	21.87	O
ATOM	4221	CB	ASN	B	126	44.690	44.081	10.266	1.00	21.40	C
ATOM	4222	CG	ASN	B	126	44.586	43.086	11.410	1.00	22.02	C
ATOM	4223	OD1	ASN	B	126	44.046	41.974	11.258	1.00	20.86	O
ATOM	4224	ND2	ASN	B	126	45.111	43.489	12.587	1.00	22.25	N
ATOM	4225	N	ALA	B	127	45.589	45.173	7.440	1.00	20.91	N
ATOM	4226	CA	ALA	B	127	45.553	46.271	6.463	1.00	21.32	C
ATOM	4227	C	ALA	B	127	45.183	45.740	5.070	1.00	21.23	C
ATOM	4228	O	ALA	B	127	44.402	46.379	4.334	1.00	20.09	O
ATOM	4229	CB	ALA	B	127	46.954	46.992	6.437	1.00	20.83	C
ATOM	4230	N	LEU	B	128	45.730	44.564	4.733	1.00	20.75	N
ATOM	4231	CA	LEU	B	128	45.437	43.947	3.439	1.00	21.57	C
ATOM	4232	C	LEU	B	128	43.982	43.501	3.459	1.00	22.00	C
ATOM	4233	O	LEU	B	128	43.287	43.622	2.450	1.00	22.05	O
ATOM	4234	CB	LEU	B	128	46.373	42.737	3.167	1.00	20.22	C
ATOM	4235	CG	LEU	B	128	47.854	43.136	2.950	1.00	20.55	C
ATOM	4236	CD1	LEU	B	128	48.732	41.926	2.835	1.00	21.13	C
ATOM	4237	CD2	LEU	B	128	47.991	44.011	1.710	1.00	19.50	C
ATOM	4238	N	GLN	B	129	43.515	42.968	4.592	1.00	22.52	N
ATOM	4239	CA	GLN	B	129	42.094	42.585	4.665	1.00	23.77	C
ATOM	4240	C	GLN	B	129	41.156	43.798	4.475	1.00	24.00	C
ATOM	4241	O	GLN	B	129	40.080	43.678	3.877	1.00	23.62	O
ATOM	4242	CB	GLN	B	129	41.762	41.918	5.994	1.00	23.49	C
ATOM	4243	CG	GLN	B	129	42.354	40.511	6.100	1.00	24.05	C
ATOM	4244	CD	GLN	B	129	42.174	39.914	7.477	1.00	25.41	C
ATOM	4245	OE1	GLN	B	129	42.741	40.395	8.455	1.00	26.64	O
ATOM	4246	NE2	GLN	B	129	41.373	38.873	7.565	1.00	25.09	N
ATOM	4247	N	ARG	B	130	41.555	44.963	4.967	1.00	23.31	N
ATOM	4248	CA	ARG	B	130	40.680	46.128	4.821	1.00	24.05	C



ATOM	4249	C	ARG	B	130	40.643	46.533	3.342	1.00	24.71	C
ATOM	4250	O	ARG	B	130	39.587	46.834	2.793	1.00	24.57	O
ATOM	4251	CB	ARG	B	130	41.178	47.302	5.681	1.00	23.39	C
ATOM	4252	CG	ARG	B	130	40.205	48.478	5.655	1.00	24.24	C
ATOM	4253	CD	ARG	B	130	38.954	48.105	6.453	1.00	23.73	C
ATOM	4254	NE	ARG	B	130	39.212	48.220	7.890	1.00	23.03	N
ATOM	4255	CZ	ARG	B	130	38.642	47.468	8.836	1.00	23.65	C
ATOM	4256	NH1	ARG	B	130	37.791	46.490	8.494	1.00	21.56	N
ATOM	4257	NH2	ARG	B	130	38.834	47.773	10.145	1.00	21.17	N
ATOM	4258	N	ALA	B	131	41.804	46.516	2.691	1.00	25.00	N
ATOM	4259	CA	ALA	B	131	41.874	46.857	1.266	1.00	25.59	C
ATOM	4260	C	ALA	B	131	40.969	45.893	0.489	1.00	25.89	C
ATOM	4261	O	ALA	B	131	40.216	46.312	-0.399	1.00	26.30	O
ATOM	4262	CB	ALA	B	131	43.327	46.734	0.763	1.00	25.23	C
ATOM	4263	N	ASP	B	132	41.054	44.615	0.842	1.00	26.36	N
ATOM	4264	CA	ASP	B	132	40.246	43.541	0.237	1.00	26.88	C
ATOM	4265	C	ASP	B	132	38.721	43.812	0.431	1.00	26.91	C
ATOM	4266	O	ASP	B	132	37.901	43.716	-0.527	1.00	25.87	O
ATOM	4267	CB	ASP	B	132	40.653	42.190	0.862	1.00	27.11	C
ATOM	4268	CG	ASP	B	132	39.836	41.009	0.307	1.00	28.76	C
ATOM	4269	OD1	ASP	B	132	39.836	40.813	-0.932	1.00	28.45	O
ATOM	4270	OD2	ASP	B	132	39.205	40.293	1.111	1.00	28.19	O
ATOM	4271	N	GLN	B	133	38.353	44.175	1.660	1.00	25.75	N
ATOM	4272	CA	GLN	B	133	36.963	44.483	1.988	1.00	25.61	C
ATOM	4273	C	GLN	B	133	36.501	45.671	1.167	1.00	25.51	C
ATOM	4274	O	GLN	B	133	35.425	45.635	0.580	1.00	25.66	O
ATOM	4275	CB	GLN	B	133	36.817	44.811	3.497	1.00	25.41	C
ATOM	4276	CG	GLN	B	133	37.040	43.595	4.376	1.00	24.65	C
ATOM	4277	CD	GLN	B	133	37.579	43.919	5.757	1.00	25.57	C
ATOM	4278	OE1	GLN	B	133	37.874	42.994	6.561	1.00	26.51	O
ATOM	4279	NE2	GLN	B	133	37.716	45.199	6.059	1.00	23.23	N
ATOM	4280	N	ILE	B	134	37.301	46.727	1.135	1.00	25.10	N
ATOM	4281	CA	ILE	B	134	36.945	47.920	0.366	1.00	25.99	C
ATOM	4282	C	ILE	B	134	36.802	47.585	-1.137	1.00	27.15	C
ATOM	4283	O	ILE	B	134	35.835	47.995	-1.801	1.00	27.45	O
ATOM	4284	CB	ILE	B	134	38.019	49.004	0.556	1.00	25.61	C
ATOM	4285	CG1	ILE	B	134	38.031	49.430	2.046	1.00	25.40	C
ATOM	4286	CG2	ILE	B	134	37.745	50.200	-0.355	1.00	23.98	C
ATOM	4287	CD1	ILE	B	134	39.288	50.224	2.417	1.00	24.83	C
ATOM	4288	N	ALA	B	135	37.764	46.852	-1.676	1.00	27.54	N
ATOM	4289	CA	ALA	B	135	37.709	46.477	-3.094	1.00	28.84	C
ATOM	4290	C	ALA	B	135	36.389	45.748	-3.411	1.00	29.48	C
ATOM	4291	O	ALA	B	135	35.744	46.021	-4.433	1.00	29.48	O
ATOM	4292	CB	ALA	B	135	38.925	45.566	-3.448	1.00	27.06	C
ATOM	4293	N	LYS	B	136	35.985	44.842	-2.530	1.00	30.05	N
ATOM	4294	CA	LYS	B	136	34.763	44.090	-2.746	1.00	31.70	C
ATOM	4295	C	LYS	B	136	33.527	44.990	-2.769	1.00	32.80	C
ATOM	4296	O	LYS	B	136	32.724	44.897	-3.690	1.00	32.64	O
ATOM	4297	CB	LYS	B	136	34.573	42.992	-1.685	1.00	31.82	C
ATOM	4298	CG	LYS	B	136	33.384	42.046	-1.991	1.00	33.43	C
ATOM	4299	CD	LYS	B	136	33.128	41.033	-0.868	1.00	34.05	C
ATOM	4300	CE	LYS	B	136	32.340	39.785	-1.339	1.00	34.66	C
ATOM	4301	NZ	LYS	B	136	32.353	38.698	-0.284	1.00	33.28	N
ATOM	4302	N	ILE	B	137	33.352	45.860	-1.778	1.00	32.73	N
ATOM	4303	CA	ILE	B	137	32.162	46.695	-1.819	1.00	33.31	C
ATOM	4304	C	ILE	B	137	32.236	47.724	-2.953	1.00	34.40	C
ATOM	4305	O	ILE	B	137	31.215	48.214	-3.387	1.00	34.55	O
ATOM	4306	CB	ILE	B	137	31.901	47.427	-0.476	1.00	32.42	C
ATOM	4307	CG1	ILE	B	137	32.942	48.523	-0.259	1.00	31.98	C
ATOM	4308	CG2	ILE	B	137	31.835	46.406	0.653	1.00	31.46	C
ATOM	4309	CD1	ILE	B	137	32.570	49.531	0.846	1.00	31.57	C
ATOM	4310	N	GLU	B	138	33.434	48.053	-3.426	1.00	35.56	N
ATOM	4311	CA	GLU	B	138	33.592	48.999	-4.545	1.00	37.18	C
ATOM	4312	C	GLU	B	138	33.536	48.291	-5.921	1.00	37.38	C
ATOM	4313	O	GLU	B	138	33.560	48.964	-6.950	1.00	36.56	O
ATOM	4314	CB	GLU	B	138	34.941	49.719	-4.465	1.00	39.32	C
ATOM	4315	CG	GLU	B	138	35.090	50.640	-3.276	1.00	43.02	C
ATOM	4316	CD	GLU	B	138	34.175	51.837	-3.378	1.00	45.64	C
ATOM	4317	OE1	GLU	B	138	34.476	52.723	-4.220	1.00	47.61	O
ATOM	4318	OE2	GLU	B	138	33.157	51.894	-2.632	1.00	46.74	O
ATOM	4319	N	GLY	B	139	33.485	46.957	-5.931	1.00	36.51	N
ATOM	4320	CA	GLY	B	139	33.480	46.230	-7.186	1.00	36.39	C
ATOM	4321	C	GLY	B	139	34.817	46.384	-7.912	1.00	36.66	C
ATOM	4322	O	GLY	B	139	34.891	46.302	-9.152	1.00	36.71	O
ATOM	4323	N	ASP	B	140	35.886	46.611	-7.155	1.00	35.86	N
ATOM	4324	CA	ASP	B	140	37.217	46.782	-7.739	1.00	35.58	C
ATOM	4325	C	ASP	B	140	37.895	45.420	-7.872	1.00	35.45	C
ATOM	4326	O	ASP	B	140	38.210	44.764	-6.869	1.00	34.65	O
ATOM	4327	CB	ASP	B	140	38.065	47.714	-6.851	1.00	35.51	C
ATOM	4328	CG	ASP	B	140	39.489	47.916	-7.389	1.00	36.32	C



ATOM	4329	OD1	ASP	B	140	39.811	47.372	-8.467	1.00	35.04	O
ATOM	4330	OD2	ASP	B	140	40.279	48.633	-6.732	1.00	36.51	O
ATOM	4331	N	THR	B	141	38.117	44.973	-9.104	1.00	35.57	N
ATOM	4332	CA	THR	B	141	38.770	43.679	-9.289	1.00	35.82	C
ATOM	4333	C	THR	B	141	40.156	43.873	-9.887	1.00	36.06	C
ATOM	4334	O	THR	B	141	40.766	42.928	-10.361	1.00	36.58	O
ATOM	4335	CB	THR	B	141	37.952	42.733	-10.219	1.00	36.97	C
ATOM	4336	OG1	THR	B	141	37.851	43.322	-11.522	1.00	36.62	O
ATOM	4337	CG2	THR	B	141	36.536	42.510	-9.657	1.00	37.06	C
ATOM	4338	N	SER	B	142	40.670	45.095	-9.842	1.00	35.87	N
ATOM	4339	CA	SER	B	142	41.996	45.354	-10.390	1.00	35.57	C
ATOM	4340	C	SER	B	142	43.120	44.548	-9.703	1.00	35.28	C
ATOM	4341	O	SER	B	142	44.136	44.257	-10.314	1.00	34.84	O
ATOM	4342	CB	SER	B	142	42.302	46.863	-10.325	1.00	36.26	C
ATOM	4343	OG	SER	B	142	42.224	47.344	-9.003	1.00	36.48	O
ATOM	4344	N	VAL	B	143	42.954	44.181	-8.437	1.00	34.01	N
ATOM	4345	CA	VAL	B	143	43.991	43.393	-7.763	1.00	33.12	C
ATOM	4346	C	VAL	B	143	43.390	42.024	-7.517	1.00	33.44	C
ATOM	4347	O	VAL	B	143	42.355	41.914	-6.853	1.00	33.18	O
ATOM	4348	CB	VAL	B	143	44.425	44.083	-6.417	1.00	32.54	C
ATOM	4349	CG1	VAL	B	143	45.304	43.136	-5.550	1.00	30.83	C
ATOM	4350	CG2	VAL	B	143	45.180	45.377	-6.750	1.00	32.52	C
ATOM	4351	N	GLU	B	144	44.028	40.984	-8.053	1.00	33.96	N
ATOM	4352	CA	GLU	B	144	43.528	39.614	-7.915	1.00	34.86	C
ATOM	4353	C	GLU	B	144	43.658	39.083	-6.504	1.00	32.96	C
ATOM	4354	O	GLU	B	144	42.747	38.453	-6.003	1.00	33.17	O
ATOM	4355	CB	GLU	B	144	44.284	38.629	-8.812	1.00	37.75	C
ATOM	4356	CG	GLU	B	144	44.632	39.128	-10.179	1.00	44.03	C
ATOM	4357	CD	GLU	B	144	46.089	39.697	-10.276	1.00	46.94	C
ATOM	4358	OE1	GLU	B	144	46.414	40.707	-9.568	1.00	47.42	O
ATOM	4359	OE2	GLU	B	144	46.887	39.117	-11.080	1.00	48.43	O
ATOM	4360	N	ASN	B	145	44.796	39.321	-5.868	1.00	30.99	N
ATOM	4361	CA	ASN	B	145	44.987	38.815	-4.502	1.00	29.52	C
ATOM	4362	C	ASN	B	145	45.530	39.903	-3.562	1.00	28.36	C
ATOM	4363	O	ASN	B	145	46.713	40.242	-3.620	1.00	28.55	O
ATOM	4364	CB	ASN	B	145	45.970	37.633	-4.509	1.00	28.45	C
ATOM	4365	CG	ASN	B	145	46.172	37.025	-3.117	1.00	28.56	C
ATOM	4366	OD1	ASN	B	145	47.268	36.562	-2.782	1.00	29.02	O
ATOM	4367	ND2	ASN	B	145	45.128	37.032	-2.308	1.00	26.76	N
ATOM	4368	N	TRP	B	146	44.665	40.431	-2.708	1.00	27.21	N
ATOM	4369	CA	TRP	B	146	45.059	41.456	-1.755	1.00	26.21	C
ATOM	4370	C	TRP	B	146	45.888	40.817	-0.654	1.00	26.09	C
ATOM	4371	O	TRP	B	146	46.816	41.434	-0.124	1.00	26.64	O
ATOM	4372	CB	TRP	B	146	43.818	42.135	-1.157	1.00	25.36	C
ATOM	4373	CG	TRP	B	146	43.335	43.251	-2.007	1.00	24.54	C
ATOM	4374	CD1	TRP	B	146	42.231	43.262	-2.809	1.00	25.14	C
ATOM	4375	CD2	TRP	B	146	44.007	44.497	-2.223	1.00	25.12	C
ATOM	4376	NE1	TRP	B	146	42.170	44.445	-3.524	1.00	25.12	N
ATOM	4377	CE2	TRP	B	146	43.252	45.221	-3.180	1.00	25.30	C
ATOM	4378	CE3	TRP	B	146	45.177	45.075	-1.696	1.00	24.59	C
ATOM	4379	CZ2	TRP	B	146	43.625	46.494	-3.622	1.00	25.86	C
ATOM	4380	CZ3	TRP	B	146	45.550	46.355	-2.141	1.00	24.76	C
ATOM	4381	CH2	TRP	B	146	44.775	47.044	-3.089	1.00	25.52	C
ATOM	4382	N	LEU	B	147	45.559	39.579	-0.317	1.00	25.96	N
ATOM	4383	CA	LEU	B	147	46.284	38.861	0.733	1.00	26.78	C
ATOM	4384	C	LEU	B	147	47.574	38.217	0.233	1.00	26.04	C
ATOM	4385	O	LEU	B	147	47.706	37.002	0.135	1.00	25.69	O
ATOM	4386	CB	LEU	B	147	45.358	37.836	1.395	1.00	27.82	C
ATOM	4387	CG	LEU	B	147	44.368	38.535	2.353	1.00	28.90	C
ATOM	4388	CD1	LEU	B	147	43.255	37.599	2.726	1.00	30.80	C
ATOM	4389	CD2	LEU	B	147	45.115	38.921	3.636	1.00	29.36	C
ATOM	4390	N	ALA	B	148	48.520	39.076	-0.103	1.00	25.20	N
ATOM	4391	CA	ALA	B	148	49.814	38.647	-0.564	1.00	24.94	C
ATOM	4392	C	ALA	B	148	50.541	37.967	0.592	1.00	24.80	C
ATOM	4393	O	ALA	B	148	50.452	38.412	1.766	1.00	24.77	O
ATOM	4394	CB	ALA	B	148	50.607	39.847	-1.030	1.00	24.93	C
ATOM	4395	N	PRO	B	149	51.290	36.899	0.291	1.00	24.15	N
ATOM	4396	CA	PRO	B	149	52.026	36.194	1.344	1.00	24.15	C
ATOM	4397	C	PRO	B	149	53.076	37.088	1.981	1.00	24.28	C
ATOM	4398	O	PRO	B	149	53.721	37.913	1.297	1.00	23.65	O
ATOM	4399	CB	PRO	B	149	52.650	34.987	0.618	1.00	24.34	C
ATOM	4400	CG	PRO	B	149	52.749	35.475	-0.824	1.00	25.81	C
ATOM	4401	CD	PRO	B	149	51.457	36.246	-1.022	1.00	24.72	C
ATOM	4402	N	ILE	B	150	53.235	36.923	3.291	1.00	23.22	N
ATOM	4403	CA	ILE	B	150	54.218	37.709	4.044	1.00	22.49	C
ATOM	4404	C	ILE	B	150	55.394	36.810	4.458	1.00	22.34	C
ATOM	4405	O	ILE	B	150	55.188	35.737	5.030	1.00	22.81	O
ATOM	4406	CB	ILE	B	150	53.566	38.323	5.337	1.00	21.99	C
ATOM	4407	CG1	ILE	B	150	52.375	39.234	4.963	1.00	21.42	C
ATOM	4408	CG2	ILE	B	150	54.619	39.073	6.137	1.00	20.93	C



ATOM	4409	CD1	ILE	B	150	51.441	39.595	6.190	1.00	21.27	C
ATOM	4410	N	VAL	B	151	56.618	37.250	4.165	1.00	22.69	N
ATOM	4411	CA	VAL	B	151	57.834	36.532	4.560	1.00	22.29	C
ATOM	4412	C	VAL	B	151	58.430	37.397	5.655	1.00	23.18	C
ATOM	4413	O	VAL	B	151	58.755	38.570	5.422	1.00	23.41	O
ATOM	4414	CB	VAL	B	151	58.819	36.381	3.368	1.00	22.53	C
ATOM	4415	CG1	VAL	B	151	60.204	35.902	3.864	1.00	22.51	C
ATOM	4416	CG2	VAL	B	151	58.247	35.364	2.400	1.00	21.96	C
ATOM	4417	N	ALA	B	152	58.545	36.830	6.858	1.00	22.60	N
ATOM	4418	CA	ALA	B	152	59.031	37.589	8.000	1.00	23.27	C
ATOM	4419	C	ALA	B	152	60.379	37.160	8.535	1.00	23.19	C
ATOM	4420	O	ALA	B	152	60.755	35.977	8.470	1.00	22.84	O
ATOM	4421	CB	ALA	B	152	57.972	37.561	9.157	1.00	22.17	C
ATOM	4422	N	ASP	B	153	61.069	38.157	9.075	1.00	22.44	N
ATOM	4423	CA	ASP	B	153	62.407	38.043	9.662	1.00	23.14	C
ATOM	4424	C	ASP	B	153	62.317	37.458	11.092	1.00	23.48	C
ATOM	4425	O	ASP	B	153	61.761	38.089	11.988	1.00	24.30	O
ATOM	4426	CB	ASP	B	153	62.984	39.485	9.684	1.00	22.24	C
ATOM	4427	CG	ASP	B	153	64.446	39.591	10.117	1.00	23.20	C
ATOM	4428	OD1	ASP	B	153	65.035	38.700	10.755	1.00	22.19	O
ATOM	4429	OD2	ASP	B	153	65.016	40.673	9.831	1.00	23.25	O
ATOM	4430	N	GLY	B	154	62.871	36.265	11.307	1.00	22.98	N
ATOM	4431	CA	GLY	B	154	62.876	35.672	12.635	1.00	22.72	C
ATOM	4432	C	GLY	B	154	64.225	35.831	13.375	1.00	23.25	C
ATOM	4433	O	GLY	B	154	64.437	35.198	14.427	1.00	22.65	O
ATOM	4434	N	GLU	B	155	65.111	36.706	12.865	1.00	23.45	N
ATOM	4435	CA	GLU	B	155	66.471	36.922	13.453	1.00	24.00	C
ATOM	4436	C	GLU	B	155	67.034	35.505	13.697	1.00	25.01	C
ATOM	4437	O	GLU	B	155	66.991	34.680	12.765	1.00	25.06	O
ATOM	4438	CB	GLU	B	155	66.390	37.711	14.771	1.00	23.81	C
ATOM	4439	CG	GLU	B	155	65.585	39.021	14.667	1.00	25.26	C
ATOM	4440	CD	GLU	B	155	66.331	40.186	13.983	1.00	26.35	C
ATOM	4441	OE1	GLU	B	155	67.534	40.014	13.565	1.00	27.05	O
ATOM	4442	OE2	GLU	B	155	65.711	41.280	13.865	1.00	24.57	O
ATOM	4443	N	ALA	B	156	67.551	35.232	14.910	1.00	25.42	N
ATOM	4444	CA	ALA	B	156	68.026	33.884	15.270	1.00	25.99	C
ATOM	4445	C	ALA	B	156	67.053	33.311	16.320	1.00	26.52	C
ATOM	4446	O	ALA	B	156	67.408	32.419	17.079	1.00	26.68	O
ATOM	4447	CB	ALA	B	156	69.480	33.928	15.863	1.00	27.22	C
ATOM	4448	N	GLY	B	157	65.822	33.836	16.396	1.00	26.26	N
ATOM	4449	CA	GLY	B	157	64.872	33.303	17.360	1.00	25.13	C
ATOM	4450	C	GLY	B	157	64.900	33.826	18.795	1.00	25.76	C
ATOM	4451	O	GLY	B	157	64.178	33.296	19.639	1.00	24.98	O
ATOM	4452	N	PHE	B	158	65.726	34.837	19.085	1.00	24.88	N
ATOM	4453	CA	PHE	B	158	65.767	35.419	20.428	1.00	24.48	C
ATOM	4454	C	PHE	B	158	66.046	34.433	21.552	1.00	24.68	C
ATOM	4455	O	PHE	B	158	65.427	34.485	22.618	1.00	23.51	O
ATOM	4456	CB	PHE	B	158	64.438	36.165	20.719	1.00	24.92	C
ATOM	4457	CG	PHE	B	158	64.167	37.312	19.766	1.00	24.61	C
ATOM	4458	CD1	PHE	B	158	63.557	37.089	18.543	1.00	25.32	C
ATOM	4459	CD2	PHE	B	158	64.585	38.610	20.087	1.00	24.65	C
ATOM	4460	CE1	PHE	B	158	63.362	38.142	17.623	1.00	26.52	C
ATOM	4461	CE2	PHE	B	158	64.405	39.676	19.194	1.00	24.95	C
ATOM	4462	CZ	PHE	B	158	63.799	39.457	17.955	1.00	24.83	C
ATOM	4463	N	GLY	B	159	66.991	33.523	21.338	1.00	25.41	N
ATOM	4464	CA	GLY	B	159	67.291	32.596	22.416	1.00	25.79	C
ATOM	4465	C	GLY	B	159	67.629	31.235	21.860	1.00	26.03	C
ATOM	4466	O	GLY	B	159	68.357	31.143	20.860	1.00	25.16	O
ATOM	4467	N	GLY	B	160	67.083	30.196	22.489	1.00	25.29	N
ATOM	4468	CA	GLY	B	160	67.376	28.849	22.042	1.00	25.60	C
ATOM	4469	C	GLY	B	160	66.227	28.258	21.252	1.00	25.38	C
ATOM	4470	O	GLY	B	160	65.380	28.978	20.730	1.00	25.57	O
ATOM	4471	N	ALA	B	161	66.184	26.940	21.186	1.00	25.08	N
ATOM	4472	CA	ALA	B	161	65.150	26.272	20.425	1.00	25.38	C
ATOM	4473	C	ALA	B	161	63.722	26.598	20.843	1.00	25.06	C
ATOM	4474	O	ALA	B	161	62.827	26.650	19.983	1.00	25.36	O
ATOM	4475	CB	ALA	B	161	65.372	24.742	20.465	1.00	26.15	C
ATOM	4476	N	LEU	B	162	63.492	26.804	22.137	1.00	24.43	N
ATOM	4477	CA	LEU	B	162	62.139	27.072	22.586	1.00	24.48	C
ATOM	4478	C	LEU	B	162	61.749	28.507	22.203	1.00	24.15	C
ATOM	4479	O	LEU	B	162	60.594	28.761	21.899	1.00	23.50	O
ATOM	4480	CB	LEU	B	162	62.026	26.847	24.105	1.00	24.83	C
ATOM	4481	CG	LEU	B	162	62.402	25.425	24.562	1.00	24.95	C
ATOM	4482	CD1	LEU	B	162	62.156	25.306	26.056	1.00	25.42	C
ATOM	4483	CD2	LEU	B	162	61.552	24.403	23.849	1.00	25.45	C
ATOM	4484	N	ASN	B	163	62.716	29.424	22.200	1.00	23.79	N
ATOM	4485	CA	ASN	B	163	62.419	30.809	21.794	1.00	23.90	C
ATOM	4486	C	ASN	B	163	62.130	30.813	20.300	1.00	23.45	C
ATOM	4487	O	ASN	B	163	61.235	31.513	19.845	1.00	23.18	O
ATOM	4488	CB	ASN	B	163	63.602	31.725	22.104	1.00	22.85	C



ATOM	4489	CG	ASN	B	163	63.871	31.812	23.605	1.00	24.25	C
ATOM	4490	OD1	ASN	B	163	63.147	32.528	24.358	1.00	24.85	O
ATOM	4491	ND2	ASN	B	163	64.873	31.071	24.063	1.00	21.12	N
ATOM	4492	N	VAL	B	164	62.867	30.012	19.522	1.00	23.97	N
ATOM	4493	CA	VAL	B	164	62.587	29.979	18.087	1.00	23.21	C
ATOM	4494	C	VAL	B	164	61.191	29.383	17.876	1.00	22.87	C
ATOM	4495	O	VAL	B	164	60.402	29.857	17.037	1.00	21.57	O
ATOM	4496	CB	VAL	B	164	63.638	29.128	17.302	1.00	25.34	C
ATOM	4497	CG1	VAL	B	164	64.999	29.775	17.355	1.00	24.00	C
ATOM	4498	CG2	VAL	B	164	63.806	27.811	17.969	1.00	28.44	C
ATOM	4499	N	TYR	B	165	60.883	28.334	18.636	1.00	22.06	N
ATOM	4500	CA	TYR	B	165	59.581	27.678	18.519	1.00	22.74	C
ATOM	4501	C	TYR	B	165	58.427	28.676	18.758	1.00	22.56	C
ATOM	4502	O	TYR	B	165	57.487	28.789	17.956	1.00	21.74	O
ATOM	4503	CB	TYR	B	165	59.481	26.535	19.541	1.00	23.20	C
ATOM	4504	CG	TYR	B	165	58.185	25.744	19.413	1.00	24.84	C
ATOM	4505	CD1	TYR	B	165	57.013	26.188	20.022	1.00	24.56	C
ATOM	4506	CD2	TYR	B	165	58.122	24.595	18.624	1.00	24.98	C
ATOM	4507	CE1	TYR	B	165	55.807	25.530	19.853	1.00	25.61	C
ATOM	4508	CE2	TYR	B	165	56.903	23.914	18.444	1.00	26.00	C
ATOM	4509	CZ	TYR	B	165	55.747	24.383	19.057	1.00	25.87	C
ATOM	4510	OH	TYR	B	165	54.525	23.726	18.888	1.00	26.17	O
ATOM	4511	N	GLU	B	166	58.505	29.398	19.877	1.00	22.79	N
ATOM	4512	CA	GLU	B	166	57.469	30.358	20.186	1.00	22.31	C
ATOM	4513	C	GLU	B	166	57.338	31.477	19.167	1.00	21.50	C
ATOM	4514	O	GLU	B	166	56.205	31.894	18.848	1.00	21.26	O
ATOM	4515	CB	GLU	B	166	57.680	30.923	21.586	1.00	22.89	C
ATOM	4516	CG	GLU	B	166	57.294	29.897	22.678	1.00	24.53	C
ATOM	4517	CD	GLU	B	166	55.850	29.413	22.545	1.00	24.64	C
ATOM	4518	OE1	GLU	B	166	54.920	30.271	22.539	1.00	24.70	O
ATOM	4519	OE2	GLU	B	166	55.635	28.173	22.469	1.00	24.34	O
ATOM	4520	N	LEU	B	167	58.459	31.987	18.666	1.00	20.75	N
ATOM	4521	CA	LEU	B	167	58.397	33.054	17.641	1.00	20.82	C
ATOM	4522	C	LEU	B	167	57.680	32.527	16.368	1.00	21.06	C
ATOM	4523	O	LEU	B	167	56.815	33.197	15.822	1.00	19.63	O
ATOM	4524	CB	LEU	B	167	59.819	33.552	17.278	1.00	20.32	C
ATOM	4525	CG	LEU	B	167	59.853	34.579	16.109	1.00	20.72	C
ATOM	4526	CD1	LEU	B	167	58.882	35.742	16.370	1.00	19.41	C
ATOM	4527	CD2	LEU	B	167	61.293	35.113	15.935	1.00	19.73	C
ATOM	4528	N	GLN	B	168	58.058	31.326	15.897	1.00	20.78	N
ATOM	4529	CA	GLN	B	168	57.422	30.744	14.715	1.00	21.14	C
ATOM	4530	C	GLN	B	168	55.919	30.559	14.952	1.00	20.53	C
ATOM	4531	O	GLN	B	168	55.078	30.905	14.105	1.00	20.61	O
ATOM	4532	CB	GLN	B	168	58.060	29.381	14.342	1.00	21.80	C
ATOM	4533	CG	GLN	B	168	57.387	28.666	13.148	1.00	22.98	C
ATOM	4534	CD	GLN	B	168	57.836	29.193	11.755	1.00	25.22	C
ATOM	4535	OE1	GLN	B	168	57.870	30.416	11.498	1.00	24.57	O
ATOM	4536	NE2	GLN	B	168	58.171	28.260	10.855	1.00	23.88	N
ATOM	4537	N	LYS	B	169	55.577	30.016	16.111	1.00	20.74	N
ATOM	4538	CA	LYS	B	169	54.171	29.832	16.432	1.00	20.61	C
ATOM	4539	C	LYS	B	169	53.430	31.195	16.423	1.00	20.69	C
ATOM	4540	O	LYS	B	169	52.322	31.307	15.887	1.00	20.46	O
ATOM	4541	CB	LYS	B	169	54.042	29.160	17.815	1.00	20.91	C
ATOM	4542	CG	LYS	B	169	52.601	29.016	18.325	1.00	21.65	C
ATOM	4543	CD	LYS	B	169	52.573	28.346	19.690	1.00	20.67	C
ATOM	4544	CE	LYS	B	169	51.155	28.454	20.305	1.00	22.98	C
ATOM	4545	NZ	LYS	B	169	51.086	27.598	21.567	1.00	23.40	N
ATOM	4546	N	ALA	B	170	54.040	32.232	17.008	1.00	19.77	N
ATOM	4547	CA	ALA	B	170	53.407	33.565	17.031	1.00	20.29	C
ATOM	4548	C	ALA	B	170	53.300	34.147	15.612	1.00	20.54	C
ATOM	4549	O	ALA	B	170	52.284	34.781	15.282	1.00	20.65	O
ATOM	4550	CB	ALA	B	170	54.210	34.520	17.944	1.00	19.56	C
ATOM	4551	N	LEU	B	171	54.333	33.939	14.774	1.00	20.20	N
ATOM	4552	CA	LEU	B	171	54.292	34.432	13.387	1.00	20.26	C
ATOM	4553	C	LEU	B	171	53.112	33.759	12.648	1.00	20.92	C
ATOM	4554	O	LEU	B	171	52.350	34.399	11.897	1.00	20.16	O
ATOM	4555	CB	LEU	B	171	55.594	34.094	12.659	1.00	20.11	C
ATOM	4556	CG	LEU	B	171	56.826	34.942	13.096	1.00	21.41	C
ATOM	4557	CD1	LEU	B	171	58.072	34.288	12.465	1.00	20.35	C
ATOM	4558	CD2	LEU	B	171	56.700	36.413	12.688	1.00	19.28	C
ATOM	4559	N	ILE	B	172	52.978	32.453	12.862	1.00	20.59	N
ATOM	4560	CA	ILE	B	172	51.883	31.716	12.254	1.00	21.65	C
ATOM	4561	C	ILE	B	172	50.508	32.195	12.757	1.00	21.25	C
ATOM	4562	O	ILE	B	172	49.581	32.414	11.966	1.00	21.54	O
ATOM	4563	CB	ILE	B	172	52.052	30.225	12.535	1.00	22.30	C
ATOM	4564	CG1	ILE	B	172	53.194	29.703	11.647	1.00	22.97	C
ATOM	4565	CG2	ILE	B	172	50.717	29.488	12.289	1.00	21.94	C
ATOM	4566	CD1	ILE	B	172	53.661	28.295	11.968	1.00	23.23	C
ATOM	4567	N	ALA	B	173	50.362	32.361	14.062	1.00	22.43	N
ATOM	4568	CA	ALA	B	173	49.066	32.831	14.594	1.00	22.09	C



ATOM	4569	C	ALA	B	173	48.688	34.163	13.911	1.00	22.09	C
ATOM	4570	O	ALA	B	173	47.495	34.429	13.610	1.00	22.07	O
ATOM	4571	CB	ALA	B	173	49.159	33.030	16.134	1.00	23.29	C
ATOM	4572	N	ALA	B	174	49.703	34.986	13.647	1.00	21.47	N
ATOM	4573	CA	ALA	B	174	49.481	36.302	13.026	1.00	21.86	C
ATOM	4574	C	ALA	B	174	49.226	36.231	11.511	1.00	21.87	C
ATOM	4575	O	ALA	B	174	48.806	37.223	10.903	1.00	21.99	O
ATOM	4576	CB	ALA	B	174	50.698	37.240	13.331	1.00	21.87	C
ATOM	4577	N	GLY	B	175	49.509	35.079	10.891	1.00	21.36	N
ATOM	4578	CA	GLY	B	175	49.243	34.930	9.455	1.00	21.73	C
ATOM	4579	C	GLY	B	175	50.424	34.948	8.490	1.00	21.74	C
ATOM	4580	O	GLY	B	175	50.248	35.197	7.289	1.00	22.47	O
ATOM	4581	N	VAL	B	176	51.620	34.676	8.993	1.00	21.55	N
ATOM	4582	CA	VAL	B	176	52.805	34.687	8.155	1.00	20.88	C
ATOM	4583	C	VAL	B	176	52.781	33.553	7.132	1.00	21.69	C
ATOM	4584	O	VAL	B	176	52.157	32.480	7.378	1.00	21.62	O
ATOM	4585	CB	VAL	B	176	54.092	34.581	9.039	1.00	21.00	C
ATOM	4586	CG1	VAL	B	176	54.536	33.122	9.213	1.00	20.41	C
ATOM	4587	CG2	VAL	B	176	55.210	35.408	8.419	1.00	20.29	C
ATOM	4588	N	ALA	B	177	53.432	33.778	5.995	1.00	21.53	N
ATOM	4589	CA	ALA	B	177	53.519	32.756	4.931	1.00	22.29	C
ATOM	4590	C	ALA	B	177	54.865	32.045	4.971	1.00	22.87	C
ATOM	4591	O	ALA	B	177	54.959	30.842	4.642	1.00	23.01	O
ATOM	4592	CB	ALA	B	177	53.324	33.397	3.542	1.00	22.51	C
ATOM	4593	N	GLY	B	178	55.902	32.785	5.376	1.00	22.08	N
ATOM	4594	CA	GLY	B	178	57.250	32.246	5.469	1.00	22.83	C
ATOM	4595	C	GLY	B	178	58.095	33.009	6.499	1.00	22.92	C
ATOM	4596	O	GLY	B	178	57.790	34.146	6.832	1.00	22.55	O
ATOM	4597	N	SER	B	179	59.157	32.390	7.002	1.00	22.87	N
ATOM	4598	CA	SER	B	179	60.003	33.030	8.011	1.00	22.74	C
ATOM	4599	C	SER	B	179	61.453	32.631	7.780	1.00	23.17	C
ATOM	4600	O	SER	B	179	61.722	31.494	7.340	1.00	22.48	O
ATOM	4601	CB	SER	B	179	59.566	32.611	9.429	1.00	23.43	C
ATOM	4602	OG	SER	B	179	59.425	31.192	9.545	1.00	23.35	O
ATOM	4603	N	HIS	B	180	62.377	33.564	8.051	1.00	23.24	N
ATOM	4604	CA	HIS	B	180	63.790	33.272	7.878	1.00	23.66	C
ATOM	4605	C	HIS	B	180	64.516	33.307	9.217	1.00	24.58	C
ATOM	4606	O	HIS	B	180	64.163	34.092	10.126	1.00	24.59	O
ATOM	4607	CB	HIS	B	180	64.430	34.186	6.792	1.00	23.90	C
ATOM	4608	CG	HIS	B	180	64.494	35.655	7.124	1.00	22.87	C
ATOM	4609	ND1	HIS	B	180	65.409	36.173	8.017	1.00	23.54	N
ATOM	4610	CD2	HIS	B	180	63.912	36.724	6.524	1.00	22.82	C
ATOM	4611	CE1	HIS	B	180	65.405	37.494	7.937	1.00	22.97	C
ATOM	4612	NE2	HIS	B	180	64.504	37.856	7.036	1.00	22.79	N
ATOM	4613	N	TRP	B	181	65.497	32.410	9.340	1.00	23.98	N
ATOM	4614	CA	TRP	B	181	66.251	32.192	10.564	1.00	24.43	C
ATOM	4615	C	TRP	B	181	67.738	32.136	10.231	1.00	24.83	C
ATOM	4616	O	TRP	B	181	68.128	31.413	9.323	1.00	25.56	O
ATOM	4617	CB	TRP	B	181	65.790	30.861	11.153	1.00	23.27	C
ATOM	4618	CG	TRP	B	181	64.291	30.794	11.185	1.00	23.80	C
ATOM	4619	CD1	TRP	B	181	63.440	30.452	10.168	1.00	22.77	C
ATOM	4620	CD2	TRP	B	181	63.472	31.160	12.301	1.00	23.00	C
ATOM	4621	NE1	TRP	B	181	62.115	30.588	10.597	1.00	23.03	N
ATOM	4622	CE2	TRP	B	181	62.125	31.019	11.906	1.00	23.52	C
ATOM	4623	CE3	TRP	B	181	63.757	31.607	13.603	1.00	24.52	C
ATOM	4624	CZ2	TRP	B	181	61.053	31.310	12.775	1.00	22.96	C
ATOM	4625	CZ3	TRP	B	181	62.685	31.900	14.467	1.00	23.53	C
ATOM	4626	CH2	TRP	B	181	61.353	31.745	14.035	1.00	23.48	C
ATOM	4627	N	GLU	B	182	68.562	32.863	10.989	1.00	24.91	N
ATOM	4628	CA	GLU	B	182	69.989	32.934	10.689	1.00	24.97	C
ATOM	4629	C	GLU	B	182	70.862	32.305	11.790	1.00	25.52	C
ATOM	4630	O	GLU	B	182	70.437	32.116	12.937	1.00	24.63	O
ATOM	4631	CB	GLU	B	182	70.388	34.412	10.446	1.00	24.37	C
ATOM	4632	CG	GLU	B	182	70.308	35.285	11.697	1.00	24.90	C
ATOM	4633	CD	GLU	B	182	70.128	36.759	11.369	1.00	24.89	C
ATOM	4634	OE1	GLU	B	182	69.260	37.089	10.544	1.00	25.50	O
ATOM	4635	OE2	GLU	B	182	70.842	37.602	11.935	1.00	25.75	O
ATOM	4636	N	ASP	B	183	72.106	32.030	11.416	1.00	25.79	N
ATOM	4637	CA	ASP	B	183	73.043	31.313	12.264	1.00	26.11	C
ATOM	4638	C	ASP	B	183	74.094	32.107	13.026	1.00	26.63	C
ATOM	4639	O	ASP	B	183	75.251	31.659	13.136	1.00	26.05	O
ATOM	4640	CB	ASP	B	183	73.768	30.258	11.403	1.00	26.33	C
ATOM	4641	CG	ASP	B	183	74.474	30.876	10.189	1.00	26.27	C
ATOM	4642	OD1	ASP	B	183	74.565	32.125	10.076	1.00	25.68	O
ATOM	4643	OD2	ASP	B	183	74.936	30.100	9.347	1.00	27.50	O
ATOM	4644	N	GLN	B	184	73.702	33.261	13.565	1.00	26.93	N
ATOM	4645	CA	GLN	B	184	74.621	34.052	14.343	1.00	27.69	C
ATOM	4646	C	GLN	B	184	74.010	34.318	15.720	1.00	28.55	C
ATOM	4647	O	GLN	B	184	72.826	34.021	15.982	1.00	28.28	O
ATOM	4648	CB	GLN	B	184	74.929	35.384	13.632	1.00	28.84	C



ATOM	4649	CG	GLN	B	184	73.767	36.371	13.607	1.00	28.63	C
ATOM	4650	CD	GLN	B	184	74.211	37.769	13.212	1.00	28.62	C
ATOM	4651	OE1	GLN	B	184	75.095	38.350	13.845	1.00	29.09	O
ATOM	4652	NE2	GLN	B	184	73.591	38.320	12.178	1.00	28.48	N
ATOM	4653	N	LEU	B	185	74.836	34.851	16.609	1.00	28.90	N
ATOM	4654	CA	LEU	B	185	74.419	35.218	17.948	1.00	29.61	C
ATOM	4655	C	LEU	B	185	74.676	36.733	17.968	1.00	29.68	C
ATOM	4656	O	LEU	B	185	75.745	37.200	18.369	1.00	29.27	O
ATOM	4657	CB	LEU	B	185	75.275	34.477	18.993	1.00	29.10	C
ATOM	4658	CG	LEU	B	185	75.021	34.837	20.468	1.00	29.98	C
ATOM	4659	CD1	LEU	B	185	73.511	34.662	20.794	1.00	29.96	C
ATOM	4660	CD2	LEU	B	185	75.872	33.944	21.391	1.00	30.03	C
ATOM	4661	N	ALA	B	186	73.685	37.486	17.500	1.00	29.91	N
ATOM	4662	CA	ALA	B	186	73.765	38.940	17.407	1.00	30.79	C
ATOM	4663	C	ALA	B	186	74.098	39.620	18.729	1.00	31.62	C
ATOM	4664	O	ALA	B	186	74.869	40.586	18.758	1.00	31.61	O
ATOM	4665	CB	ALA	B	186	72.445	39.505	16.854	1.00	30.39	C
ATOM	4666	N	SER	B	187	73.517	39.119	19.814	1.00	31.96	N
ATOM	4667	CA	SER	B	187	73.730	39.702	21.137	1.00	33.12	C
ATOM	4668	C	SER	B	187	75.168	39.621	21.646	1.00	33.74	C
ATOM	4669	O	SER	B	187	75.493	40.208	22.703	1.00	33.84	O
ATOM	4670	CB	SER	B	187	72.779	39.056	22.153	1.00	33.03	C
ATOM	4671	OG	SER	B	187	72.943	37.653	22.174	1.00	32.95	O
ATOM	4672	N	GLU	B	188	76.024	38.907	20.912	1.00	34.54	N
ATOM	4673	CA	GLU	B	188	77.429	38.809	21.300	1.00	35.85	C
ATOM	4674	C	GLU	B	188	78.341	39.440	20.249	1.00	36.77	C
ATOM	4675	O	GLU	B	188	79.562	39.330	20.357	1.00	36.38	O
ATOM	4676	CB	GLU	B	188	77.855	37.357	21.525	1.00	36.70	C
ATOM	4677	CG	GLU	B	188	77.348	36.692	22.820	1.00	37.63	C
ATOM	4678	CD	GLU	B	188	77.684	37.455	24.112	1.00	38.69	C
ATOM	4679	OE1	GLU	B	188	78.794	38.039	24.241	1.00	38.93	O
ATOM	4680	OE2	GLU	B	188	76.820	37.451	25.024	1.00	39.01	O
ATOM	4681	N	LYS	B	189	77.760	40.094	19.239	1.00	38.07	N
ATOM	4682	CA	LYS	B	189	78.557	40.749	18.203	1.00	40.92	C
ATOM	4683	C	LYS	B	189	79.627	41.613	18.871	1.00	42.76	C
ATOM	4684	O	LYS	B	189	79.311	42.461	19.706	1.00	42.01	O
ATOM	4685	CB	LYS	B	189	77.694	41.661	17.329	1.00	41.21	C
ATOM	4686	CG	LYS	B	189	78.493	42.318	16.188	1.00	42.94	C
ATOM	4687	CD	LYS	B	189	77.635	43.124	15.203	1.00	44.34	C
ATOM	4688	CE	LYS	B	189	77.068	44.401	15.837	1.00	45.38	C
ATOM	4689	NZ	LYS	B	189	78.098	45.265	16.554	1.00	47.08	N
ATOM	4690	N	LYS	B	190	80.888	41.415	18.499	1.00	45.68	N
ATOM	4691	CA	LYS	B	190	81.962	42.193	19.112	1.00	48.92	C
ATOM	4692	C	LYS	B	190	82.250	43.479	18.375	1.00	50.80	C
ATOM	4693	O	LYS	B	190	82.235	43.527	17.148	1.00	50.79	O
ATOM	4694	CB	LYS	B	190	83.231	41.349	19.260	1.00	49.81	C
ATOM	4695	CG	LYS	B	190	83.177	40.435	20.510	1.00	51.50	C
ATOM	4696	CD	LYS	B	190	82.682	41.223	21.781	1.00	51.95	C
ATOM	4697	CE	LYS	B	190	82.154	40.330	22.949	1.00	51.96	C
ATOM	4698	NZ	LYS	B	190	80.898	39.504	22.672	1.00	50.86	N
ATOM	4699	N	CYS	B	191	82.480	44.532	19.151	1.00	53.41	N
ATOM	4700	CA	CYS	B	191	82.753	45.862	18.609	1.00	56.49	C
ATOM	4701	C	CYS	B	191	84.178	46.068	18.128	1.00	57.33	C
ATOM	4702	O	CYS	B	191	85.119	45.418	18.623	1.00	57.75	O
ATOM	4703	CB	CYS	B	191	82.459	46.933	19.665	1.00	57.55	C
ATOM	4704	SG	CYS	B	191	80.718	47.356	19.800	1.00	62.06	S
ATOM	4705	N	GLY	B	192	84.313	46.993	17.173	1.00	58.25	N
ATOM	4706	CA	GLY	B	192	85.602	47.375	16.608	1.00	58.96	C
ATOM	4707	C	GLY	B	192	86.618	46.339	16.146	1.00	59.54	C
ATOM	4708	O	GLY	B	192	86.286	45.201	15.779	1.00	59.82	O
ATOM	4709	N	HIS	B	193	87.877	46.781	16.154	1.00	59.83	N
ATOM	4710	CA	HIS	B	193	89.054	46.004	15.751	1.00	59.94	C
ATOM	4711	C	HIS	B	193	89.024	44.522	16.147	1.00	59.05	C
ATOM	4712	O	HIS	B	193	88.925	44.176	17.344	1.00	59.21	O
ATOM	4713	CB	HIS	B	193	90.309	46.673	16.337	1.00	61.75	C
ATOM	4714	CG	HIS	B	193	91.592	45.972	16.004	1.00	63.71	C
ATOM	4715	ND1	HIS	B	193	91.995	45.731	14.704	1.00	64.67	N
ATOM	4716	CD2	HIS	B	193	92.572	45.481	16.803	1.00	64.20	C
ATOM	4717	CE1	HIS	B	193	93.171	45.121	14.718	1.00	65.12	C
ATOM	4718	NE2	HIS	B	193	93.543	44.958	15.979	1.00	65.28	N
ATOM	4719	N	LEU	B	194	89.108	43.652	15.139	1.00	57.38	N
ATOM	4720	CA	LEU	B	194	89.110	42.210	15.388	1.00	56.05	C
ATOM	4721	C	LEU	B	194	87.778	41.678	15.958	1.00	54.64	C
ATOM	4722	O	LEU	B	194	87.726	40.551	16.494	1.00	54.63	O
ATOM	4723	CB	LEU	B	194	90.255	41.862	16.354	1.00	56.62	C
ATOM	4724	CG	LEU	B	194	91.638	42.319	15.867	1.00	57.10	C
ATOM	4725	CD1	LEU	B	194	92.675	42.191	17.005	1.00	56.94	C
ATOM	4726	CD2	LEU	B	194	92.022	41.497	14.621	1.00	56.98	C
ATOM	4727	N	GLY	B	195	86.716	42.485	15.857	1.00	52.70	N
ATOM	4728	CA	GLY	B	195	85.410	42.061	16.358	1.00	49.88	C



ATOM	4729	C	GLY	B	195	84.587	41.459	15.226	1.00	47.99	C
ATOM	4730	O	GLY	B	195	85.130	40.709	14.395	1.00	48.56	O
ATOM	4731	N	GLY	B	196	83.288	41.776	15.171	1.00	45.20	N
ATOM	4732	CA	GLY	B	196	82.455	41.247	14.105	1.00	40.88	C
ATOM	4733	C	GLY	B	196	81.379	40.287	14.586	1.00	37.93	C
ATOM	4734	O	GLY	B	196	81.216	40.053	15.784	1.00	37.87	O
ATOM	4735	N	LYS	B	197	80.641	39.730	13.638	1.00	35.45	N
ATOM	4736	CA	LYS	B	197	79.574	38.790	13.955	1.00	33.11	C
ATOM	4737	C	LYS	B	197	80.128	37.449	14.482	1.00	31.76	C
ATOM	4738	O	LYS	B	197	81.223	36.997	14.110	1.00	30.93	O
ATOM	4739	CB	LYS	B	197	78.689	38.551	12.717	1.00	32.39	C
ATOM	4740	CG	LYS	B	197	78.028	39.839	12.180	1.00	30.81	C
ATOM	4741	CD	LYS	B	197	76.996	39.548	11.076	1.00	30.70	C
ATOM	4742	CE	LYS	B	197	77.665	39.033	9.808	1.00	28.75	C
ATOM	4743	NZ	LYS	B	197	76.666	38.877	8.702	1.00	28.84	N
ATOM	4744	N	VAL	B	198	79.341	36.829	15.352	1.00	29.80	N
ATOM	4745	CA	VAL	B	198	79.683	35.576	15.970	1.00	28.59	C
ATOM	4746	C	VAL	B	198	78.666	34.529	15.505	1.00	29.13	C
ATOM	4747	O	VAL	B	198	77.442	34.648	15.773	1.00	28.63	O
ATOM	4748	CB	VAL	B	198	79.646	35.721	17.519	1.00	28.17	C
ATOM	4749	CG1	VAL	B	198	79.965	34.384	18.193	1.00	27.46	C
ATOM	4750	CG2	VAL	B	198	80.643	36.810	17.972	1.00	26.52	C
ATOM	4751	N	LEU	B	199	79.160	33.512	14.802	1.00	28.25	N
ATOM	4752	CA	LEU	B	199	78.308	32.439	14.301	1.00	27.78	C
ATOM	4753	C	LEU	B	199	78.064	31.415	15.403	1.00	27.72	C
ATOM	4754	O	LEU	B	199	78.832	31.352	16.379	1.00	27.21	O
ATOM	4755	CB	LEU	B	199	79.009	31.704	13.154	1.00	27.97	C
ATOM	4756	CG	LEU	B	199	79.358	32.452	11.872	1.00	27.67	C
ATOM	4757	CD1	LEU	B	199	80.166	31.527	10.931	1.00	27.35	C
ATOM	4758	CD2	LEU	B	199	78.064	32.888	11.204	1.00	27.05	C
ATOM	4759	N	ILE	B	200	77.005	30.619	15.256	1.00	27.43	N
ATOM	4760	CA	ILE	B	200	76.779	29.541	16.212	1.00	27.80	C
ATOM	4761	C	ILE	B	200	77.110	28.255	15.431	1.00	27.73	C
ATOM	4762	O	ILE	B	200	77.239	28.285	14.200	1.00	27.95	O
ATOM	4763	CB	ILE	B	200	75.337	29.526	16.841	1.00	28.21	C
ATOM	4764	CG1	ILE	B	200	74.267	29.919	15.830	1.00	29.15	C
ATOM	4765	CG2	ILE	B	200	75.310	30.487	18.080	1.00	28.57	C
ATOM	4766	CD1	ILE	B	200	73.961	28.883	14.798	1.00	28.34	C
ATOM	4767	N	PRO	B	201	77.288	27.122	16.132	1.00	27.82	N
ATOM	4768	CA	PRO	B	201	77.621	25.876	15.438	1.00	28.20	C
ATOM	4769	C	PRO	B	201	76.622	25.471	14.373	1.00	28.71	C
ATOM	4770	O	PRO	B	201	75.423	25.727	14.502	1.00	29.37	O
ATOM	4771	CB	PRO	B	201	77.691	24.848	16.574	1.00	27.81	C
ATOM	4772	CG	PRO	B	201	78.175	25.659	17.745	1.00	28.01	C
ATOM	4773	CD	PRO	B	201	77.318	26.938	17.594	1.00	27.33	C
ATOM	4774	N	THR	B	202	77.111	24.816	13.322	1.00	28.35	N
ATOM	4775	CA	THR	B	202	76.237	24.361	12.255	1.00	28.15	C
ATOM	4776	C	THR	B	202	75.101	23.506	12.836	1.00	28.91	C
ATOM	4777	O	THR	B	202	73.937	23.617	12.409	1.00	29.23	O
ATOM	4778	CB	THR	B	202	77.034	23.509	11.223	1.00	28.35	C
ATOM	4779	OG1	THR	B	202	77.848	24.372	10.422	1.00	27.57	O
ATOM	4780	CG2	THR	B	202	76.087	22.736	10.314	1.00	28.00	C
ATOM	4781	N	GLN	B	203	75.405	22.671	13.818	1.00	28.16	N
ATOM	4782	CA	GLN	B	203	74.320	21.837	14.346	1.00	29.78	C
ATOM	4783	C	GLN	B	203	73.276	22.677	15.085	1.00	28.68	C
ATOM	4784	O	GLN	B	203	72.106	22.335	15.111	1.00	28.74	O
ATOM	4785	CB	GLN	B	203	74.841	20.759	15.307	1.00	30.87	C
ATOM	4786	CG	GLN	B	203	73.748	19.666	15.638	1.00	34.48	C
ATOM	4787	CD	GLN	B	203	73.085	18.968	14.393	1.00	36.30	C
ATOM	4788	OE1	GLN	B	203	73.743	18.713	13.372	1.00	37.47	O
ATOM	4789	NE2	GLN	B	203	71.789	18.621	14.511	1.00	36.40	N
ATOM	4790	N	GLN	B	204	73.704	23.758	15.714	1.00	28.29	N
ATOM	4791	CA	GLN	B	204	72.731	24.580	16.424	1.00	27.91	C
ATOM	4792	C	GLN	B	204	71.752	25.210	15.427	1.00	27.61	C
ATOM	4793	O	GLN	B	204	70.566	25.353	15.730	1.00	28.16	O
ATOM	4794	CB	GLN	B	204	73.424	25.672	17.247	1.00	27.82	C
ATOM	4795	CG	GLN	B	204	72.431	26.487	18.076	1.00	28.08	C
ATOM	4796	CD	GLN	B	204	73.120	27.368	19.079	1.00	28.27	C
ATOM	4797	OE1	GLN	B	204	74.051	26.942	19.732	1.00	29.89	O
ATOM	4798	NE2	GLN	B	204	72.662	28.599	19.215	1.00	28.83	N
ATOM	4799	N	HIS	B	205	72.222	25.589	14.235	1.00	26.93	N
ATOM	4800	CA	HIS	B	205	71.276	26.153	13.290	1.00	26.91	C
ATOM	4801	C	HIS	B	205	70.327	25.110	12.764	1.00	26.92	C
ATOM	4802	O	HIS	B	205	69.161	25.399	12.466	1.00	26.64	O
ATOM	4803	CB	HIS	B	205	71.940	26.850	12.122	1.00	26.66	C
ATOM	4804	CG	HIS	B	205	71.028	27.836	11.461	1.00	26.81	C
ATOM	4805	ND1	HIS	B	205	70.342	28.789	12.183	1.00	26.06	N
ATOM	4806	CD2	HIS	B	205	70.647	27.995	10.167	1.00	26.84	C
ATOM	4807	CE1	HIS	B	205	69.572	29.492	11.365	1.00	26.41	C
ATOM	4808	NE2	HIS	B	205	69.739	29.035	10.136	1.00	25.23	N



ATOM	4809	N	ILE	B	206	70.805	23.867	12.649	1.00	27.20	N
ATOM	4810	CA	ILE	B	206	69.898	22.809	12.195	1.00	26.40	C
ATOM	4811	C	ILE	B	206	68.788	22.648	13.267	1.00	25.87	C
ATOM	4812	O	ILE	B	206	67.610	22.376	12.958	1.00	26.01	O
ATOM	4813	CB	ILE	B	206	70.691	21.479	11.943	1.00	26.72	C
ATOM	4814	CG1	ILE	B	206	71.552	21.648	10.668	1.00	26.86	C
ATOM	4815	CG2	ILE	B	206	69.699	20.327	11.786	1.00	26.44	C
ATOM	4816	CD1	ILE	B	206	72.564	20.490	10.345	1.00	27.88	C
ATOM	4817	N	ARG	B	207	69.165	22.819	14.529	1.00	26.18	N
ATOM	4818	CA	ARG	B	207	68.191	22.767	15.629	1.00	25.66	C
ATOM	4819	C	ARG	B	207	67.175	23.918	15.434	1.00	25.13	C
ATOM	4820	O	ARG	B	207	65.941	23.726	15.500	1.00	25.34	O
ATOM	4821	CB	ARG	B	207	68.917	22.940	16.964	1.00	26.31	C
ATOM	4822	CG	ARG	B	207	67.993	22.790	18.205	1.00	26.52	C
ATOM	4823	CD	ARG	B	207	68.762	23.037	19.497	1.00	27.64	C
ATOM	4824	NE	ARG	B	207	69.066	24.466	19.598	1.00	29.14	N
ATOM	4825	CZ	ARG	B	207	69.788	25.024	20.566	1.00	29.17	C
ATOM	4826	NH1	ARG	B	207	70.288	24.262	21.530	1.00	29.10	N
ATOM	4827	NH2	ARG	B	207	69.999	26.343	20.572	1.00	28.71	N
ATOM	4828	N	THR	B	208	67.685	25.110	15.158	1.00	24.54	N
ATOM	4829	CA	THR	B	208	66.785	26.243	14.942	1.00	24.06	C
ATOM	4830	C	THR	B	208	65.812	25.921	13.828	1.00	24.18	C
ATOM	4831	O	THR	B	208	64.598	26.078	13.994	1.00	24.52	O
ATOM	4832	CB	THR	B	208	67.569	27.520	14.589	1.00	24.45	C
ATOM	4833	OG1	THR	B	208	68.271	27.992	15.760	1.00	25.33	O
ATOM	4834	CG2	THR	B	208	66.623	28.622	14.083	1.00	25.31	C
ATOM	4835	N	LEU	B	209	66.328	25.442	12.692	1.00	23.65	N
ATOM	4836	CA	LEU	B	209	65.448	25.146	11.558	1.00	24.32	C
ATOM	4837	C	LEU	B	209	64.511	24.006	11.860	1.00	24.32	C
ATOM	4838	O	LEU	B	209	63.367	23.987	11.384	1.00	24.76	O
ATOM	4839	CB	LEU	B	209	66.253	24.833	10.273	1.00	23.01	C
ATOM	4840	CG	LEU	B	209	67.135	25.994	9.806	1.00	23.98	C
ATOM	4841	CD1	LEU	B	209	68.238	25.452	8.851	1.00	23.64	C
ATOM	4842	CD2	LEU	B	209	66.277	27.082	9.098	1.00	22.27	C
ATOM	4843	N	THR	B	210	64.994	23.046	12.635	1.00	24.52	N
ATOM	4844	CA	THR	B	210	64.148	21.902	12.996	1.00	24.84	C
ATOM	4845	C	THR	B	210	63.016	22.411	13.919	1.00	24.99	C
ATOM	4846	O	THR	B	210	61.859	21.995	13.793	1.00	25.75	O
ATOM	4847	CB	THR	B	210	65.005	20.814	13.712	1.00	24.72	C
ATOM	4848	OG1	THR	B	210	65.982	20.332	12.773	1.00	25.20	O
ATOM	4849	CG2	THR	B	210	64.134	19.628	14.187	1.00	23.85	C
ATOM	4850	N	SER	B	211	63.354	23.314	14.839	1.00	24.89	N
ATOM	4851	CA	SER	B	211	62.348	23.855	15.761	1.00	24.80	C
ATOM	4852	C	SER	B	211	61.293	24.683	14.991	1.00	24.46	C
ATOM	4853	O	SER	B	211	60.077	24.579	15.263	1.00	24.74	O
ATOM	4854	CB	SER	B	211	63.023	24.700	16.853	1.00	25.07	C
ATOM	4855	OG	SER	B	211	62.036	25.256	17.730	1.00	26.95	O
ATOM	4856	N	ALA	B	212	61.745	25.477	14.018	1.00	24.16	N
ATOM	4857	CA	ALA	B	212	60.849	26.282	13.181	1.00	23.99	C
ATOM	4858	C	ALA	B	212	59.905	25.367	12.398	1.00	24.64	C
ATOM	4859	O	ALA	B	212	58.703	25.659	12.246	1.00	24.61	O
ATOM	4860	CB	ALA	B	212	61.672	27.143	12.185	1.00	24.30	C
ATOM	4861	N	ARG	B	213	60.438	24.268	11.866	1.00	24.34	N
ATOM	4862	CA	ARG	B	213	59.560	23.352	11.113	1.00	24.64	C
ATOM	4863	C	ARG	B	213	58.571	22.704	12.092	1.00	24.15	C
ATOM	4864	O	ARG	B	213	57.387	22.566	11.782	1.00	24.86	O
ATOM	4865	CB	ARG	B	213	60.363	22.231	10.389	1.00	23.98	C
ATOM	4866	CG	ARG	B	213	59.450	21.326	9.533	1.00	25.23	C
ATOM	4867	CD	ARG	B	213	59.023	22.036	8.232	1.00	25.65	C
ATOM	4868	NE	ARG	B	213	60.154	22.121	7.287	1.00	26.91	N
ATOM	4869	CZ	ARG	B	213	60.173	22.889	6.196	1.00	28.49	C
ATOM	4870	NH1	ARG	B	213	59.127	23.677	5.882	1.00	27.01	N
ATOM	4871	NH2	ARG	B	213	61.240	22.848	5.382	1.00	29.13	N
ATOM	4872	N	LEU	B	214	59.055	22.305	13.266	1.00	23.71	N
ATOM	4873	CA	LEU	B	214	58.175	21.653	14.231	1.00	24.40	C
ATOM	4874	C	LEU	B	214	56.985	22.549	14.614	1.00	24.65	C
ATOM	4875	O	LEU	B	214	55.833	22.091	14.664	1.00	24.59	O
ATOM	4876	CB	LEU	B	214	58.947	21.264	15.514	1.00	24.16	C
ATOM	4877	CG	LEU	B	214	58.102	20.569	16.602	1.00	24.33	C
ATOM	4878	CD1	LEU	B	214	57.567	19.219	16.108	1.00	25.03	C
ATOM	4879	CD2	LEU	B	214	58.961	20.349	17.831	1.00	25.09	C
ATOM	4880	N	ALA	B	215	57.253	23.825	14.908	1.00	24.68	N
ATOM	4881	CA	ALA	B	215	56.155	24.744	15.278	1.00	23.26	C
ATOM	4882	C	ALA	B	215	55.131	24.846	14.157	1.00	23.43	C
ATOM	4883	O	ALA	B	215	53.926	24.912	14.410	1.00	23.85	O
ATOM	4884	CB	ALA	B	215	56.717	26.143	15.631	1.00	23.78	C
ATOM	4885	N	ALA	B	216	55.581	24.848	12.910	1.00	23.61	N
ATOM	4886	CA	ALA	B	216	54.628	24.928	11.785	1.00	23.49	C
ATOM	4887	C	ALA	B	216	53.800	23.634	11.698	1.00	24.05	C
ATOM	4888	O	ALA	B	216	52.578	23.685	11.493	1.00	24.02	O



ATOM	4889	CB	ALA	B	216	55.362	25.180	10.457	1.00	22.16	C
ATOM	4890	N	ASP	B	217	54.469	22.485	11.892	1.00	24.77	N
ATOM	4891	CA	ASP	B	217	53.790	21.195	11.867	1.00	24.96	C
ATOM	4892	C	ASP	B	217	52.762	21.125	13.001	1.00	24.76	C
ATOM	4893	O	ASP	B	217	51.614	20.767	12.775	1.00	24.52	O
ATOM	4894	CB	ASP	B	217	54.805	20.048	12.009	1.00	24.88	C
ATOM	4895	CG	ASP	B	217	55.636	19.828	10.719	1.00	24.59	C
ATOM	4896	OD1	ASP	B	217	55.179	20.242	9.621	1.00	23.35	O
ATOM	4897	OD2	ASP	B	217	56.729	19.224	10.815	1.00	25.56	O
ATOM	4898	N	VAL	B	218	53.156	21.503	14.209	1.00	24.44	N
ATOM	4899	CA	VAL	B	218	52.192	21.465	15.332	1.00	24.88	C
ATOM	4900	C	VAL	B	218	50.989	22.402	15.069	1.00	25.00	C
ATOM	4901	O	VAL	B	218	49.842	22.083	15.418	1.00	24.50	O
ATOM	4902	CB	VAL	B	218	52.917	21.839	16.656	1.00	24.77	C
ATOM	4903	CG1	VAL	B	218	51.910	22.055	17.798	1.00	25.20	C
ATOM	4904	CG2	VAL	B	218	53.947	20.734	17.007	1.00	24.92	C
ATOM	4905	N	ALA	B	219	51.259	23.537	14.416	1.00	24.48	N
ATOM	4906	CA	ALA	B	219	50.231	24.528	14.087	1.00	24.96	C
ATOM	4907	C	ALA	B	219	49.478	24.108	12.828	1.00	25.49	C
ATOM	4908	O	ALA	B	219	48.549	24.800	12.402	1.00	25.66	O
ATOM	4909	CB	ALA	B	219	50.871	25.921	13.876	1.00	23.73	C
ATOM	4910	N	ASP	B	220	49.921	23.006	12.208	1.00	25.79	N
ATOM	4911	CA	ASP	B	220	49.255	22.434	11.014	1.00	25.20	C
ATOM	4912	C	ASP	B	220	49.197	23.327	9.756	1.00	25.14	C
ATOM	4913	O	ASP	B	220	48.174	23.358	9.081	1.00	24.62	O
ATOM	4914	CB	ASP	B	220	47.824	21.973	11.415	1.00	26.47	C
ATOM	4915	CG	ASP	B	220	47.120	21.129	10.324	1.00	28.26	C
ATOM	4916	OD1	ASP	B	220	47.815	20.394	9.621	1.00	28.79	O
ATOM	4917	OD2	ASP	B	220	45.867	21.194	10.174	1.00	30.43	O
ATOM	4918	N	VAL	B	221	50.291	24.031	9.428	1.00	24.84	N
ATOM	4919	CA	VAL	B	221	50.322	24.898	8.236	1.00	24.25	C
ATOM	4920	C	VAL	B	221	51.670	24.661	7.570	1.00	23.79	C
ATOM	4921	O	VAL	B	221	52.669	24.446	8.247	1.00	23.63	O
ATOM	4922	CB	VAL	B	221	50.153	26.412	8.597	1.00	24.48	C
ATOM	4923	CG1	VAL	B	221	48.716	26.683	9.045	1.00	23.70	C
ATOM	4924	CG2	VAL	B	221	51.124	26.791	9.727	1.00	23.79	C
ATOM	4925	N	PRO	B	222	51.716	24.719	6.234	1.00	23.91	N
ATOM	4926	CA	PRO	B	222	52.933	24.481	5.455	1.00	24.01	C
ATOM	4927	C	PRO	B	222	53.888	25.684	5.291	1.00	24.56	C
ATOM	4928	O	PRO	B	222	54.400	25.969	4.192	1.00	23.46	O
ATOM	4929	CB	PRO	B	222	52.375	23.956	4.129	1.00	24.43	C
ATOM	4930	CG	PRO	B	222	51.132	24.815	3.923	1.00	25.02	C
ATOM	4931	CD	PRO	B	222	50.546	24.970	5.361	1.00	24.72	C
ATOM	4932	N	THR	B	223	54.158	26.359	6.412	1.00	24.14	N
ATOM	4933	CA	THR	B	223	55.009	27.551	6.396	1.00	23.31	C
ATOM	4934	C	THR	B	223	56.314	27.377	5.620	1.00	24.25	C
ATOM	4935	O	THR	B	223	56.996	26.354	5.741	1.00	24.71	O
ATOM	4936	CB	THR	B	223	55.341	27.993	7.850	1.00	22.04	C
ATOM	4937	OG1	THR	B	223	54.139	27.964	8.641	1.00	21.84	O
ATOM	4938	CG2	THR	B	223	55.961	29.429	7.851	1.00	19.55	C
ATOM	4939	N	VAL	B	224	56.684	28.388	4.834	1.00	24.70	N
ATOM	4940	CA	VAL	B	224	57.938	28.337	4.076	1.00	24.98	C
ATOM	4941	C	VAL	B	224	59.055	28.726	5.022	1.00	25.53	C
ATOM	4942	O	VAL	B	224	59.018	29.818	5.625	1.00	25.86	O
ATOM	4943	CB	VAL	B	224	57.866	29.293	2.880	1.00	25.69	C
ATOM	4944	CG1	VAL	B	224	59.197	29.321	2.117	1.00	25.50	C
ATOM	4945	CG2	VAL	B	224	56.714	28.831	1.963	1.00	23.83	C
ATOM	4946	N	VAL	B	225	60.033	27.826	5.180	1.00	24.75	N
ATOM	4947	CA	VAL	B	225	61.156	28.023	6.094	1.00	25.28	C
ATOM	4948	C	VAL	B	225	62.402	28.397	5.308	1.00	25.87	C
ATOM	4949	O	VAL	B	225	62.832	27.681	4.382	1.00	26.08	O
ATOM	4950	CB	VAL	B	225	61.402	26.724	6.938	1.00	25.10	C
ATOM	4951	CG1	VAL	B	225	62.645	26.859	7.787	1.00	25.25	C
ATOM	4952	CG2	VAL	B	225	60.208	26.454	7.852	1.00	24.77	C
ATOM	4953	N	ILE	B	226	62.995	29.528	5.666	1.00	25.86	N
ATOM	4954	CA	ILE	B	226	64.170	30.010	4.969	1.00	25.10	C
ATOM	4955	C	ILE	B	226	65.354	30.052	5.920	1.00	25.38	C
ATOM	4956	O	ILE	B	226	65.257	30.606	7.028	1.00	25.03	O
ATOM	4957	CB	ILE	B	226	63.911	31.430	4.441	1.00	26.86	C
ATOM	4958	CG1	ILE	B	226	62.688	31.395	3.513	1.00	27.14	C
ATOM	4959	CG2	ILE	B	226	65.182	31.979	3.744	1.00	26.21	C
ATOM	4960	CD1	ILE	B	226	62.228	32.787	3.036	1.00	27.24	C
ATOM	4961	N	ALA	B	227	66.464	29.458	5.504	1.00	24.35	N
ATOM	4962	CA	ALA	B	227	67.677	29.458	6.312	1.00	25.33	C
ATOM	4963	C	ALA	B	227	68.653	30.512	5.769	1.00	25.80	C
ATOM	4964	O	ALA	B	227	68.941	30.565	4.568	1.00	26.56	O
ATOM	4965	CB	ALA	B	227	68.338	28.057	6.290	1.00	25.15	C
ATOM	4966	N	ARG	B	228	69.156	31.351	6.659	1.00	25.37	N
ATOM	4967	CA	ARG	B	228	70.110	32.390	6.280	1.00	25.37	C
ATOM	4968	C	ARG	B	228	71.449	32.094	6.953	1.00	25.06	C



ATOM	4969	O	ARG	B	228	71.491	31.688	8.109	1.00	25.38	O
ATOM	4970	CB	ARG	B	228	69.633	33.774	6.769	1.00	24.74	C
ATOM	4971	CG	ARG	B	228	70.774	34.794	6.924	1.00	25.07	C
ATOM	4972	CD	ARG	B	228	70.234	36.222	7.222	1.00	25.15	C
ATOM	4973	NE	ARG	B	228	71.247	37.045	7.893	1.00	25.79	N
ATOM	4974	CZ	ARG	B	228	71.111	38.340	8.145	1.00	26.89	C
ATOM	4975	NH1	ARG	B	228	69.990	38.973	7.776	1.00	26.16	N
ATOM	4976	NH2	ARG	B	228	72.087	38.999	8.768	1.00	25.98	N
ATOM	4977	N	THR	B	229	72.541	32.266	6.226	1.00	25.54	N
ATOM	4978	CA	THR	B	229	73.843	32.073	6.830	1.00	25.80	C
ATOM	4979	C	THR	B	229	74.577	33.373	6.794	1.00	26.19	C
ATOM	4980	O	THR	B	229	74.540	34.092	5.782	1.00	26.78	O
ATOM	4981	CB	THR	B	229	74.740	30.977	6.158	1.00	26.46	C
ATOM	4982	OG1	THR	B	229	75.942	30.882	6.931	1.00	26.64	O
ATOM	4983	CG2	THR	B	229	75.135	31.333	4.707	1.00	27.27	C
ATOM	4984	N	ASP	B	230	75.241	33.671	7.904	1.00	26.18	N
ATOM	4985	CA	ASP	B	230	75.993	34.889	8.059	1.00	27.41	C
ATOM	4986	C	ASP	B	230	77.511	34.678	8.003	1.00	27.91	C
ATOM	4987	O	ASP	B	230	78.258	35.557	8.394	1.00	27.86	O
ATOM	4988	CB	ASP	B	230	75.639	35.528	9.397	1.00	28.19	C
ATOM	4989	CG	ASP	B	230	74.328	36.282	9.346	1.00	28.60	C
ATOM	4990	OD1	ASP	B	230	73.251	35.652	9.497	1.00	29.39	O
ATOM	4991	OD2	ASP	B	230	74.391	37.507	9.124	1.00	28.65	O
ATOM	4992	N	ALA	B	231	77.942	33.526	7.493	1.00	28.60	N
ATOM	4993	CA	ALA	B	231	79.369	33.167	7.431	1.00	29.97	C
ATOM	4994	C	ALA	B	231	80.205	33.981	6.441	1.00	31.20	C
ATOM	4995	O	ALA	B	231	81.437	33.887	6.451	1.00	31.58	O
ATOM	4996	CB	ALA	B	231	79.521	31.660	7.095	1.00	28.34	C
ATOM	4997	N	GLU	B	232	79.549	34.747	5.577	1.00	32.20	N
ATOM	4998	CA	GLU	B	232	80.286	35.523	4.606	1.00	33.64	C
ATOM	4999	C	GLU	B	232	81.182	36.546	5.281	1.00	33.50	C
ATOM	5000	O	GLU	B	232	82.341	36.687	4.890	1.00	33.87	O
ATOM	5001	CB	GLU	B	232	79.343	36.205	3.619	1.00	35.43	C
ATOM	5002	CG	GLU	B	232	80.030	36.550	2.312	1.00	38.37	C
ATOM	5003	CD	GLU	B	232	79.964	38.000	2.045	1.00	40.39	C
ATOM	5004	OE1	GLU	B	232	80.503	38.782	2.857	1.00	41.79	O
ATOM	5005	OE2	GLU	B	232	79.338	38.369	1.031	1.00	42.65	O
ATOM	5006	N	ALA	B	233	80.669	37.241	6.301	1.00	32.85	N
ATOM	5007	CA	ALA	B	233	81.457	38.243	7.007	1.00	32.07	C
ATOM	5008	C	ALA	B	233	81.802	37.879	8.444	1.00	32.38	C
ATOM	5009	O	ALA	B	233	82.724	38.460	9.018	1.00	33.52	O
ATOM	5010	CB	ALA	B	233	80.739	39.569	6.995	1.00	31.77	C
ATOM	5011	N	ALA	B	234	81.090	36.937	9.049	1.00	31.76	N
ATOM	5012	CA	ALA	B	234	81.386	36.604	10.452	1.00	31.94	C
ATOM	5013	C	ALA	B	234	82.834	36.111	10.607	1.00	32.35	C
ATOM	5014	O	ALA	B	234	83.317	35.292	9.825	1.00	32.30	O
ATOM	5015	CB	ALA	B	234	80.404	35.556	10.974	1.00	31.29	C
ATOM	5016	N	THR	B	235	83.501	36.610	11.637	1.00	32.93	N
ATOM	5017	CA	THR	B	235	84.894	36.282	11.885	1.00	33.83	C
ATOM	5018	C	THR	B	235	85.062	35.446	13.128	1.00	33.06	C
ATOM	5019	O	THR	B	235	86.169	35.005	13.439	1.00	33.43	O
ATOM	5020	CB	THR	B	235	85.662	37.561	12.082	1.00	34.76	C
ATOM	5021	OG1	THR	B	235	84.919	38.373	13.003	1.00	37.98	O
ATOM	5022	CG2	THR	B	235	85.781	38.321	10.761	1.00	36.58	C
ATOM	5023	N	LEU	B	236	83.957	35.216	13.828	1.00	32.16	N
ATOM	5024	CA	LEU	B	236	83.981	34.449	15.072	1.00	31.18	C
ATOM	5025	C	LEU	B	236	82.896	33.373	15.092	1.00	30.91	C
ATOM	5026	O	LEU	B	236	81.941	33.435	14.335	1.00	30.36	O
ATOM	5027	CB	LEU	B	236	83.776	35.425	16.244	1.00	31.06	C
ATOM	5028	CG	LEU	B	236	84.842	36.531	16.319	1.00	31.19	C
ATOM	5029	CD1	LEU	B	236	84.348	37.723	17.147	1.00	31.41	C
ATOM	5030	CD2	LEU	B	236	86.120	35.948	16.939	1.00	30.84	C
ATOM	5031	N	ILE	B	237	83.064	32.379	15.955	1.00	30.85	N
ATOM	5032	CA	ILE	B	237	82.076	31.327	16.132	1.00	30.68	C
ATOM	5033	C	ILE	B	237	82.154	30.994	17.625	1.00	31.45	C
ATOM	5034	O	ILE	B	237	83.240	31.064	18.220	1.00	31.87	O
ATOM	5035	CB	ILE	B	237	82.365	30.062	15.237	1.00	30.11	C
ATOM	5036	CG1	ILE	B	237	81.323	28.992	15.534	1.00	29.40	C
ATOM	5037	CG2	ILE	B	237	83.755	29.512	15.496	1.00	29.21	C
ATOM	5038	CD1	ILE	B	237	81.253	27.907	14.509	1.00	28.65	C
ATOM	5039	N	THR	B	238	81.016	30.674	18.246	1.00	31.21	N
ATOM	5040	CA	THR	B	238	80.985	30.379	19.679	1.00	31.50	C
ATOM	5041	C	THR	B	238	81.762	29.145	20.115	1.00	32.22	C
ATOM	5042	O	THR	B	238	82.379	29.145	21.166	1.00	33.29	O
ATOM	5043	CB	THR	B	238	79.539	30.168	20.182	1.00	31.13	C
ATOM	5044	OG1	THR	B	238	78.918	29.114	19.413	1.00	28.70	O
ATOM	5045	CG2	THR	B	238	78.736	31.453	20.049	1.00	29.63	C
ATOM	5046	N	SER	B	239	81.750	28.102	19.300	1.00	32.62	N
ATOM	5047	CA	SER	B	239	82.410	26.880	19.686	1.00	33.12	C
ATOM	5048	C	SER	B	239	82.974	26.139	18.473	1.00	33.40	C



ATOM	5049	O	SER	B	239	82.511	26.332	17.337	1.00	33.51	O
ATOM	5050	CB	SER	B	239	81.388	26.018	20.431	1.00	33.03	C
ATOM	5051	OG	SER	B	239	81.820	24.697	20.620	1.00	34.06	O
ATOM	5052	N	ASP	B	240	83.985	25.301	18.710	1.00	33.19	N
ATOM	5053	CA	ASP	B	240	84.559	24.511	17.631	1.00	34.01	C
ATOM	5054	C	ASP	B	240	84.028	23.069	17.734	1.00	34.04	C
ATOM	5055	O	ASP	B	240	84.577	22.145	17.115	1.00	34.59	O
ATOM	5056	CB	ASP	B	240	86.083	24.493	17.749	1.00	35.01	C
ATOM	5057	CG	ASP	B	240	86.557	23.780	19.001	1.00	35.94	C
ATOM	5058	OD1	ASP	B	240	85.724	23.330	19.831	1.00	37.62	O
ATOM	5059	OD2	ASP	B	240	87.779	23.659	19.170	1.00	38.16	O
ATOM	5060	N	VAL	B	241	82.969	22.871	18.513	1.00	33.52	N
ATOM	5061	CA	VAL	B	241	82.423	21.538	18.700	1.00	33.83	C
ATOM	5062	C	VAL	B	241	81.966	20.782	17.448	1.00	34.33	C
ATOM	5063	O	VAL	B	241	82.111	19.554	17.379	1.00	34.26	O
ATOM	5064	CB	VAL	B	241	81.225	21.555	19.685	1.00	34.72	C
ATOM	5065	CG1	VAL	B	241	79.958	22.106	18.968	1.00	35.12	C
ATOM	5066	CG2	VAL	B	241	80.967	20.158	20.204	1.00	34.05	C
ATOM	5067	N	ASP	B	242	81.409	21.491	16.462	1.00	34.20	N
ATOM	5068	CA	ASP	B	242	80.906	20.844	15.262	1.00	33.70	C
ATOM	5069	C	ASP	B	242	82.030	20.579	14.261	1.00	34.35	C
ATOM	5070	O	ASP	B	242	82.659	21.517	13.771	1.00	33.80	O
ATOM	5071	CB	ASP	B	242	79.825	21.722	14.604	1.00	33.73	C
ATOM	5072	CG	ASP	B	242	78.944	20.939	13.623	1.00	33.65	C
ATOM	5073	OD1	ASP	B	242	79.501	20.273	12.729	1.00	33.23	O
ATOM	5074	OD2	ASP	B	242	77.694	20.985	13.729	1.00	33.49	O
ATOM	5075	N	GLU	B	243	82.268	19.318	13.933	1.00	34.98	N
ATOM	5076	CA	GLU	B	243	83.347	19.013	13.002	1.00	36.49	C
ATOM	5077	C	GLU	B	243	83.193	19.712	11.649	1.00	36.25	C
ATOM	5078	O	GLU	B	243	84.192	19.962	10.968	1.00	36.23	O
ATOM	5079	CB	GLU	B	243	83.474	17.499	12.808	1.00	38.80	C
ATOM	5080	CG	GLU	B	243	83.608	16.741	14.126	1.00	42.92	C
ATOM	5081	CD	GLU	B	243	84.352	15.410	13.969	1.00	45.77	C
ATOM	5082	OE1	GLU	B	243	84.263	14.806	12.866	1.00	46.92	O
ATOM	5083	OE2	GLU	B	243	85.018	14.978	14.955	1.00	47.31	O
ATOM	5084	N	ARG	B	244	81.961	20.062	11.268	1.00	35.48	N
ATOM	5085	CA	ARG	B	244	81.742	20.737	9.983	1.00	34.28	C
ATOM	5086	C	ARG	B	244	82.271	22.167	10.018	1.00	34.17	C
ATOM	5087	O	ARG	B	244	82.535	22.754	8.967	1.00	34.00	O
ATOM	5088	CB	ARG	B	244	80.252	20.743	9.612	1.00	34.33	C
ATOM	5089	CG	ARG	B	244	79.697	19.384	9.206	1.00	34.01	C
ATOM	5090	CD	ARG	B	244	78.173	19.334	9.184	1.00	33.25	C
ATOM	5091	NE	ARG	B	244	77.615	19.550	10.523	1.00	32.07	N
ATOM	5092	CZ	ARG	B	244	76.383	19.219	10.896	1.00	31.97	C
ATOM	5093	NH1	ARG	B	244	75.548	18.649	10.039	1.00	31.97	N
ATOM	5094	NH2	ARG	B	244	75.985	19.460	12.136	1.00	31.61	N
ATOM	5095	N	ASP	B	245	82.439	22.721	11.221	1.00	33.40	N
ATOM	5096	CA	ASP	B	245	82.947	24.090	11.388	1.00	33.38	C
ATOM	5097	C	ASP	B	245	84.462	24.134	11.617	1.00	33.88	C
ATOM	5098	O	ASP	B	245	85.123	25.166	11.386	1.00	33.18	O
ATOM	5099	CB	ASP	B	245	82.267	24.787	12.579	1.00	32.05	C
ATOM	5100	CG	ASP	B	245	80.755	24.869	12.428	1.00	31.76	C
ATOM	5101	OD1	ASP	B	245	80.242	25.058	11.294	1.00	31.45	O
ATOM	5102	OD2	ASP	B	245	80.075	24.750	13.458	1.00	32.13	O
ATOM	5103	N	GLN	B	246	85.011	23.014	12.078	1.00	34.28	N
ATOM	5104	CA	GLN	B	246	86.442	22.956	12.346	1.00	35.43	C
ATOM	5105	C	GLN	B	246	87.361	23.323	11.171	1.00	35.29	C
ATOM	5106	O	GLN	B	246	88.367	24.000	11.369	1.00	36.17	O
ATOM	5107	CB	GLN	B	246	86.778	21.589	12.946	1.00	36.13	C
ATOM	5108	CG	GLN	B	246	86.134	21.424	14.327	1.00	37.73	C
ATOM	5109	CD	GLN	B	246	86.332	20.036	14.906	1.00	39.12	C
ATOM	5110	OE1	GLN	B	246	86.829	19.130	14.219	1.00	40.51	O
ATOM	5111	NE2	GLN	B	246	85.941	19.851	16.161	1.00	38.54	N
ATOM	5112	N	PRO	B	247	87.022	22.929	9.933	1.00	35.05	N
ATOM	5113	CA	PRO	B	247	87.936	23.314	8.854	1.00	35.43	C
ATOM	5114	C	PRO	B	247	88.247	24.822	8.776	1.00	36.31	C
ATOM	5115	O	PRO	B	247	89.304	25.230	8.270	1.00	36.28	O
ATOM	5116	CB	PRO	B	247	87.218	22.824	7.598	1.00	35.29	C
ATOM	5117	CG	PRO	B	247	86.447	21.640	8.080	1.00	35.28	C
ATOM	5118	CD	PRO	B	247	85.914	22.109	9.421	1.00	35.27	C
ATOM	5119	N	PHE	B	248	87.347	25.659	9.288	1.00	35.72	N
ATOM	5120	CA	PHE	B	248	87.550	27.096	9.194	1.00	35.80	C
ATOM	5121	C	PHE	B	248	88.093	27.736	10.453	1.00	36.11	C
ATOM	5122	O	PHE	B	248	88.424	28.907	10.428	1.00	36.54	O
ATOM	5123	CB	PHE	B	248	86.219	27.764	8.798	1.00	35.64	C
ATOM	5124	CG	PHE	B	248	85.599	27.162	7.576	1.00	35.21	C
ATOM	5125	CD1	PHE	B	248	86.124	27.428	6.314	1.00	35.79	C
ATOM	5126	CD2	PHE	B	248	84.538	26.275	7.683	1.00	35.06	C
ATOM	5127	CE1	PHE	B	248	85.605	26.816	5.165	1.00	35.62	C
ATOM	5128	CE2	PHE	B	248	84.007	25.649	6.534	1.00	35.50	C



ATOM	5129	CZ	PHE	B	248	84.542	25.919	5.276	1.00	35.34	C
ATOM	5130	N	ILE	B	249	88.169	26.979	11.548	1.00	36.41	N
ATOM	5131	CA	ILE	B	249	88.670	27.496	12.816	1.00	37.87	C
ATOM	5132	C	ILE	B	249	90.180	27.681	12.737	1.00	39.09	C
ATOM	5133	O	ILE	B	249	90.883	26.742	12.356	1.00	39.59	O
ATOM	5134	CB	ILE	B	249	88.397	26.502	13.977	1.00	38.48	C
ATOM	5135	CG1	ILE	B	249	86.900	26.200	14.076	1.00	38.36	C
ATOM	5136	CG2	ILE	B	249	88.916	27.091	15.302	1.00	38.17	C
ATOM	5137	CD1	ILE	B	249	86.103	27.359	14.544	1.00	38.33	C
ATOM	5138	N	THR	B	250	90.694	28.857	13.096	1.00	39.85	N
ATOM	5139	CA	THR	B	250	92.141	29.060	13.014	1.00	41.10	C
ATOM	5140	C	THR	B	250	92.834	28.521	14.253	1.00	41.85	C
ATOM	5141	O	THR	B	250	93.801	27.770	14.151	1.00	42.91	O
ATOM	5142	CB	THR	B	250	92.526	30.534	12.901	1.00	41.39	C
ATOM	5143	OG1	THR	B	250	92.172	31.200	14.124	1.00	41.81	O
ATOM	5144	CG2	THR	B	250	91.839	31.178	11.703	1.00	40.77	C
ATOM	5145	N	GLY	B	251	92.355	28.899	15.432	1.00	42.38	N
ATOM	5146	CA	GLY	B	251	92.980	28.402	16.647	1.00	42.37	C
ATOM	5147	C	GLY	B	251	92.972	29.494	17.682	1.00	42.67	C
ATOM	5148	O	GLY	B	251	92.796	29.228	18.874	1.00	43.43	O
ATOM	5149	N	GLU	B	252	93.179	30.726	17.232	1.00	42.45	N
ATOM	5150	CA	GLU	B	252	93.138	31.868	18.128	1.00	42.57	C
ATOM	5151	C	GLU	B	252	91.763	31.860	18.791	1.00	42.12	C
ATOM	5152	O	GLU	B	252	90.744	31.481	18.169	1.00	41.76	O
ATOM	5153	CB	GLU	B	252	93.296	33.160	17.337	1.00	44.25	C
ATOM	5154	CG	GLU	B	252	94.524	33.177	16.465	1.00	46.83	C
ATOM	5155	CD	GLU	B	252	94.301	33.938	15.153	1.00	49.00	C
ATOM	5156	OE1	GLU	B	252	93.636	33.367	14.218	1.00	49.65	O
ATOM	5157	OE2	GLU	B	252	94.790	35.109	15.069	1.00	50.10	O
ATOM	5158	N	ARG	B	253	91.735	32.270	20.050	1.00	41.32	N
ATOM	5159	CA	ARG	B	253	90.498	32.294	20.815	1.00	41.20	C
ATOM	5160	C	ARG	B	253	90.456	33.688	21.408	1.00	40.43	C
ATOM	5161	O	ARG	B	253	91.507	34.234	21.757	1.00	41.26	O
ATOM	5162	CB	ARG	B	253	90.564	31.231	21.911	1.00	41.67	C
ATOM	5163	CG	ARG	B	253	89.201	30.745	22.354	1.00	43.20	C
ATOM	5164	CD	ARG	B	253	89.105	29.252	22.215	1.00	43.52	C
ATOM	5165	NE	ARG	B	253	89.263	28.593	23.509	1.00	44.73	N
ATOM	5166	CZ	ARG	B	253	88.337	28.619	24.472	1.00	44.82	C
ATOM	5167	NH1	ARG	B	253	87.197	29.268	24.264	1.00	44.67	N
ATOM	5168	NH2	ARG	B	253	88.548	28.007	25.641	1.00	44.46	N
ATOM	5169	N	THR	B	254	89.274	34.283	21.514	1.00	39.11	N
ATOM	5170	CA	THR	B	254	89.174	35.623	22.057	1.00	38.01	C
ATOM	5171	C	THR	B	254	89.019	35.618	23.576	1.00	37.90	C
ATOM	5172	O	THR	B	254	88.879	34.565	24.195	1.00	37.85	O
ATOM	5173	CB	THR	B	254	87.982	36.369	21.452	1.00	38.01	C
ATOM	5174	OG1	THR	B	254	86.765	35.842	21.996	1.00	38.19	O
ATOM	5175	CG2	THR	B	254	87.977	36.211	19.971	1.00	37.22	C
ATOM	5176	N	ARG	B	255	89.053	36.811	24.157	1.00	38.00	N
ATOM	5177	CA	ARG	B	255	88.916	37.003	25.601	1.00	38.86	C
ATOM	5178	C	ARG	B	255	87.574	36.471	26.101	1.00	37.95	C
ATOM	5179	O	ARG	B	255	87.437	36.044	27.248	1.00	37.66	O
ATOM	5180	CB	ARG	B	255	89.015	38.499	25.930	1.00	40.55	C
ATOM	5181	CG	ARG	B	255	90.422	39.004	25.991	1.00	44.50	C
ATOM	5182	CD	ARG	B	255	91.155	38.315	27.157	1.00	47.20	C
ATOM	5183	NE	ARG	B	255	92.531	37.899	26.834	1.00	49.60	N
ATOM	5184	CZ	ARG	B	255	93.271	37.091	27.610	1.00	50.69	C
ATOM	5185	NH1	ARG	B	255	92.765	36.614	28.757	1.00	50.70	N
ATOM	5186	NH2	ARG	B	255	94.513	36.743	27.235	1.00	50.97	N
ATOM	5187	N	GLU	B	256	86.580	36.512	25.227	1.00	37.58	N
ATOM	5188	CA	GLU	B	256	85.236	36.045	25.580	1.00	37.66	C
ATOM	5189	C	GLU	B	256	85.193	34.557	25.429	1.00	36.93	C
ATOM	5190	O	GLU	B	256	84.207	33.917	25.795	1.00	37.22	O
ATOM	5191	CB	GLU	B	256	84.190	36.653	24.643	1.00	38.26	C
ATOM	5192	CG	GLU	B	256	84.043	38.165	24.770	1.00	40.41	C
ATOM	5193	CD	GLU	B	256	85.031	38.950	23.916	1.00	41.67	C
ATOM	5194	OE1	GLU	B	256	85.628	38.378	22.972	1.00	43.36	O
ATOM	5195	OE2	GLU	B	256	85.190	40.159	24.181	1.00	43.77	O
ATOM	5196	N	GLY	B	257	86.260	34.007	24.854	1.00	36.19	N
ATOM	5197	CA	GLY	B	257	86.310	32.578	24.634	1.00	35.49	C
ATOM	5198	C	GLY	B	257	85.783	32.150	23.274	1.00	35.60	C
ATOM	5199	O	GLY	B	257	85.610	30.965	23.049	1.00	36.23	O
ATOM	5200	N	PHE	B	258	85.520	33.074	22.358	1.00	35.46	N
ATOM	5201	CA	PHE	B	258	85.031	32.638	21.056	1.00	35.79	C
ATOM	5202	C	PHE	B	258	86.219	32.162	20.205	1.00	35.63	C
ATOM	5203	O	PHE	B	258	87.377	32.378	20.559	1.00	35.76	O
ATOM	5204	CB	PHE	B	258	84.308	33.770	20.337	1.00	36.64	C
ATOM	5205	CG	PHE	B	258	83.166	34.354	21.116	1.00	37.70	C
ATOM	5206	CD1	PHE	B	258	82.283	33.533	21.797	1.00	38.05	C
ATOM	5207	CD2	PHE	B	258	82.960	35.733	21.130	1.00	37.92	C
ATOM	5208	CE1	PHE	B	258	81.197	34.085	22.490	1.00	39.31	C



ATOM	5209	CE2	PHE	B	258	81.888	36.295	21.811	1.00	38.44	C
ATOM	5210	CZ	PHE	B	258	81.003	35.486	22.489	1.00	38.58	C
ATOM	5211	N	TYR	B	259	85.923	31.508	19.091	1.00	35.73	N
ATOM	5212	CA	TYR	B	259	86.957	31.002	18.202	1.00	35.66	C
ATOM	5213	C	TYR	B	259	86.985	31.803	16.918	1.00	35.95	C
ATOM	5214	O	TYR	B	259	85.936	32.054	16.320	1.00	35.70	O
ATOM	5215	CB	TYR	B	259	86.692	29.538	17.841	1.00	35.61	C
ATOM	5216	CG	TYR	B	259	86.758	28.581	19.008	1.00	36.63	C
ATOM	5217	CD1	TYR	B	259	85.748	28.540	19.964	1.00	36.45	C
ATOM	5218	CD2	TYR	B	259	87.869	27.753	19.187	1.00	36.67	C
ATOM	5219	CE1	TYR	B	259	85.844	27.704	21.080	1.00	36.74	C
ATOM	5220	CE2	TYR	B	259	87.978	26.914	20.294	1.00	36.82	C
ATOM	5221	CZ	TYR	B	259	86.968	26.895	21.237	1.00	37.03	C
ATOM	5222	OH	TYR	B	259	87.091	26.080	22.345	1.00	37.72	O
ATOM	5223	N	ARG	B	260	88.179	32.193	16.481	1.00	36.25	N
ATOM	5224	CA	ARG	B	260	88.308	32.916	15.216	1.00	36.85	C
ATOM	5225	C	ARG	B	260	88.073	31.905	14.100	1.00	36.22	C
ATOM	5226	O	ARG	B	260	88.481	30.744	14.197	1.00	35.48	O
ATOM	5227	CB	ARG	B	260	89.688	33.579	15.118	1.00	38.77	C
ATOM	5228	CG	ARG	B	260	89.704	34.839	15.973	1.00	41.66	C
ATOM	5229	CD	ARG	B	260	90.947	35.690	15.864	1.00	44.04	C
ATOM	5230	NE	ARG	B	260	90.804	36.875	16.714	1.00	46.60	N
ATOM	5231	CZ	ARG	B	260	89.907	37.851	16.505	1.00	47.63	C
ATOM	5232	NH1	ARG	B	260	89.065	37.796	15.464	1.00	48.09	N
ATOM	5233	NH2	ARG	B	260	89.847	38.887	17.336	1.00	48.23	N
ATOM	5234	N	THR	B	261	87.382	32.336	13.052	1.00	35.33	N
ATOM	5235	CA	THR	B	261	87.049	31.435	11.977	1.00	35.68	C
ATOM	5236	C	THR	B	261	87.210	32.157	10.646	1.00	35.88	C
ATOM	5237	O	THR	B	261	86.920	33.354	10.552	1.00	35.50	O
ATOM	5238	CB	THR	B	261	85.587	30.917	12.174	1.00	35.60	C
ATOM	5239	OG1	THR	B	261	85.266	29.960	11.159	1.00	35.99	O
ATOM	5240	CG2	THR	B	261	84.602	32.060	12.102	1.00	35.81	C
ATOM	5241	N	LYS	B	262	87.690	31.449	9.622	1.00	36.41	N
ATOM	5242	CA	LYS	B	262	87.896	32.063	8.301	1.00	37.46	C
ATOM	5243	C	LYS	B	262	86.568	32.288	7.579	1.00	37.08	C
ATOM	5244	O	LYS	B	262	85.869	31.338	7.255	1.00	36.31	O
ATOM	5245	CB	LYS	B	262	88.777	31.176	7.414	1.00	39.57	C
ATOM	5246	CG	LYS	B	262	90.136	30.805	8.012	1.00	43.35	C
ATOM	5247	CD	LYS	B	262	91.053	30.190	6.932	1.00	45.74	C
ATOM	5248	CE	LYS	B	262	90.453	28.938	6.247	1.00	47.60	C
ATOM	5249	NZ	LYS	B	262	90.562	27.700	7.099	1.00	48.76	N
ATOM	5250	N	ASN	B	263	86.252	33.542	7.286	1.00	37.36	N
ATOM	5251	CA	ASN	B	263	84.985	33.869	6.643	1.00	37.59	C
ATOM	5252	C	ASN	B	263	85.036	33.803	5.128	1.00	37.83	C
ATOM	5253	O	ASN	B	263	86.072	33.476	4.541	1.00	38.43	O
ATOM	5254	CB	ASN	B	263	84.563	35.256	7.081	1.00	38.63	C
ATOM	5255	CG	ASN	B	263	85.587	36.293	6.722	1.00	39.98	C
ATOM	5256	OD1	ASN	B	263	85.494	36.926	5.682	1.00	40.60	O
ATOM	5257	ND2	ASN	B	263	86.597	36.448	7.569	1.00	41.18	N
ATOM	5258	N	GLY	B	264	83.910	34.088	4.482	1.00	36.59	N
ATOM	5259	CA	GLY	B	264	83.913	34.044	3.044	1.00	36.13	C
ATOM	5260	C	GLY	B	264	82.864	33.132	2.472	1.00	35.72	C
ATOM	5261	O	GLY	B	264	81.996	32.617	3.173	1.00	35.41	O
ATOM	5262	N	ILE	B	265	82.969	32.900	1.176	1.00	35.32	N
ATOM	5263	CA	ILE	B	265	81.985	32.088	0.501	1.00	35.06	C
ATOM	5264	C	ILE	B	265	82.113	30.617	0.793	1.00	35.37	C
ATOM	5265	O	ILE	B	265	81.117	29.868	0.764	1.00	35.22	O
ATOM	5266	CB	ILE	B	265	82.040	32.317	-1.012	1.00	35.07	C
ATOM	5267	CG1	ILE	B	265	80.777	31.731	-1.648	1.00	34.90	C
ATOM	5268	CG2	ILE	B	265	83.317	31.685	-1.604	1.00	35.09	C
ATOM	5269	CD1	ILE	B	265	80.662	32.060	-3.077	1.00	35.14	C
ATOM	5270	N	GLU	B	266	83.328	30.181	1.103	1.00	35.05	N
ATOM	5271	CA	GLU	B	266	83.505	28.767	1.358	1.00	35.21	C
ATOM	5272	C	GLU	B	266	82.631	28.251	2.505	1.00	33.44	C
ATOM	5273	O	GLU	B	266	81.900	27.284	2.330	1.00	33.82	O
ATOM	5274	CB	GLU	B	266	84.970	28.455	1.630	1.00	37.38	C
ATOM	5275	CG	GLU	B	266	85.305	27.014	1.276	1.00	41.50	C
ATOM	5276	CD	GLU	B	266	86.786	26.714	1.458	1.00	43.85	C
ATOM	5277	OE1	GLU	B	266	87.614	27.492	0.910	1.00	45.41	O
ATOM	5278	OE2	GLU	B	266	87.105	25.708	2.143	1.00	45.27	O
ATOM	5279	N	PRO	B	267	82.734	28.852	3.708	1.00	32.40	N
ATOM	5280	CA	PRO	B	267	81.897	28.393	4.832	1.00	31.51	C
ATOM	5281	C	PRO	B	267	80.382	28.573	4.525	1.00	30.69	C
ATOM	5282	O	PRO	B	267	79.562	27.790	4.992	1.00	30.64	O
ATOM	5283	CB	PRO	B	267	82.375	29.265	6.000	1.00	31.82	C
ATOM	5284	CG	PRO	B	267	82.870	30.524	5.316	1.00	31.97	C
ATOM	5285	CD	PRO	B	267	83.613	29.957	4.129	1.00	31.51	C
ATOM	5286	N	CYS	B	268	80.012	29.590	3.740	1.00	30.17	N
ATOM	5287	CA	CYS	B	268	78.589	29.777	3.378	1.00	29.56	C
ATOM	5288	C	CYS	B	268	78.070	28.608	2.562	1.00	29.65	C



ATOM	5289	O	CYS	B	268	76.946	28.122	2.776	1.00	29.16	O
ATOM	5290	CB	CYS	B	268	78.383	31.032	2.547	1.00	29.78	C
ATOM	5291	SG	CYS	B	268	78.695	32.548	3.448	1.00	30.80	S
ATOM	5292	N	ILE	B	269	78.891	28.149	1.621	1.00	29.37	N
ATOM	5293	CA	ILE	B	269	78.495	27.031	0.764	1.00	29.38	C
ATOM	5294	C	ILE	B	269	78.356	25.776	1.616	1.00	29.12	C
ATOM	5295	O	ILE	B	269	77.367	25.057	1.517	1.00	29.42	O
ATOM	5296	CB	ILE	B	269	79.544	26.833	-0.365	1.00	29.65	C
ATOM	5297	CG1	ILE	B	269	79.412	27.976	-1.377	1.00	29.10	C
ATOM	5298	CG2	ILE	B	269	79.389	25.453	-1.000	1.00	29.83	C
ATOM	5299	CD1	ILE	B	269	80.474	27.970	-2.479	1.00	30.08	C
ATOM	5300	N	ALA	B	270	79.331	25.535	2.482	1.00	29.15	N
ATOM	5301	CA	ALA	B	270	79.287	24.373	3.353	1.00	29.05	C
ATOM	5302	C	ALA	B	270	78.056	24.403	4.283	1.00	29.08	C
ATOM	5303	O	ALA	B	270	77.347	23.418	4.417	1.00	28.14	O
ATOM	5304	CB	ALA	B	270	80.552	24.308	4.186	1.00	29.44	C
ATOM	5305	N	ARG	B	271	77.811	25.538	4.930	1.00	29.45	N
ATOM	5306	CA	ARG	B	271	76.653	25.624	5.827	1.00	28.83	C
ATOM	5307	C	ARG	B	271	75.376	25.492	5.022	1.00	28.43	C
ATOM	5308	O	ARG	B	271	74.415	24.852	5.463	1.00	28.19	O
ATOM	5309	CB	ARG	B	271	76.688	26.947	6.614	1.00	28.84	C
ATOM	5310	CG	ARG	B	271	77.755	26.918	7.681	1.00	30.09	C
ATOM	5311	CD	ARG	B	271	77.726	28.117	8.582	1.00	31.58	C
ATOM	5312	NE	ARG	B	271	78.609	27.915	9.732	1.00	31.28	N
ATOM	5313	CZ	ARG	B	271	78.250	28.123	10.999	1.00	32.47	C
ATOM	5314	NH1	ARG	B	271	77.011	28.555	11.293	1.00	32.13	N
ATOM	5315	NH2	ARG	B	271	79.116	27.878	11.982	1.00	31.12	N
ATOM	5316	N	ALA	B	272	75.362	26.085	3.831	1.00	28.61	N
ATOM	5317	CA	ALA	B	272	74.185	26.007	2.988	1.00	29.15	C
ATOM	5318	C	ALA	B	272	73.873	24.550	2.656	1.00	29.58	C
ATOM	5319	O	ALA	B	272	72.707	24.160	2.696	1.00	28.83	O
ATOM	5320	CB	ALA	B	272	74.378	26.817	1.700	1.00	29.44	C
ATOM	5321	N	LYS	B	273	74.898	23.730	2.369	1.00	29.35	N
ATOM	5322	CA	LYS	B	273	74.630	22.327	2.050	1.00	30.47	C
ATOM	5323	C	LYS	B	273	74.124	21.591	3.308	1.00	30.28	C
ATOM	5324	O	LYS	B	273	73.233	20.754	3.225	1.00	31.11	O
ATOM	5325	CB	LYS	B	273	75.898	21.627	1.514	1.00	32.00	C
ATOM	5326	CG	LYS	B	273	76.513	22.247	0.275	1.00	33.19	C
ATOM	5327	CD	LYS	B	273	77.787	21.445	-0.154	1.00	35.30	C
ATOM	5328	CE	LYS	B	273	78.368	21.972	-1.459	1.00	36.45	C
ATOM	5329	NZ	LYS	B	273	79.805	21.636	-1.649	1.00	37.35	N
ATOM	5330	N	ALA	B	274	74.686	21.904	4.470	1.00	29.68	N
ATOM	5331	CA	ALA	B	274	74.239	21.268	5.714	1.00	29.63	C
ATOM	5332	C	ALA	B	274	72.791	21.683	6.043	1.00	29.63	C
ATOM	5333	O	ALA	B	274	72.027	20.904	6.648	1.00	29.07	O
ATOM	5334	CB	ALA	B	274	75.180	21.669	6.896	1.00	29.53	C
ATOM	5335	N	TYR	B	275	72.402	22.897	5.638	1.00	28.85	N
ATOM	5336	CA	TYR	B	275	71.053	23.387	5.942	1.00	28.30	C
ATOM	5337	C	TYR	B	275	69.975	22.973	4.955	1.00	28.20	C
ATOM	5338	O	TYR	B	275	68.796	22.948	5.292	1.00	28.27	O
ATOM	5339	CB	TYR	B	275	71.023	24.924	6.004	1.00	27.58	C
ATOM	5340	CG	TYR	B	275	71.918	25.553	7.024	1.00	26.07	C
ATOM	5341	CD1	TYR	B	275	72.327	24.859	8.159	1.00	26.33	C
ATOM	5342	CD2	TYR	B	275	72.344	26.867	6.863	1.00	26.33	C
ATOM	5343	CE1	TYR	B	275	73.166	25.474	9.112	1.00	26.84	C
ATOM	5344	CE2	TYR	B	275	73.155	27.491	7.793	1.00	26.44	C
ATOM	5345	CZ	TYR	B	275	73.572	26.794	8.911	1.00	26.43	C
ATOM	5346	OH	TYR	B	275	74.411	27.432	9.793	1.00	27.43	O
ATOM	5347	N	ALA	B	276	70.379	22.648	3.739	1.00	28.03	N
ATOM	5348	CA	ALA	B	276	69.435	22.307	2.698	1.00	28.39	C
ATOM	5349	C	ALA	B	276	68.335	21.304	3.014	1.00	28.56	C
ATOM	5350	O	ALA	B	276	67.179	21.509	2.612	1.00	28.56	O
ATOM	5351	CB	ALA	B	276	70.201	21.869	1.413	1.00	29.03	C
ATOM	5352	N	PRO	B	277	68.650	20.216	3.730	1.00	28.66	N
ATOM	5353	CA	PRO	B	277	67.533	19.282	3.994	1.00	29.14	C
ATOM	5354	C	PRO	B	277	66.513	19.858	4.989	1.00	29.61	C
ATOM	5355	O	PRO	B	277	65.429	19.283	5.199	1.00	28.96	O
ATOM	5356	CB	PRO	B	277	68.230	18.045	4.591	1.00	29.54	C
ATOM	5357	CG	PRO	B	277	69.667	18.164	4.114	1.00	29.08	C
ATOM	5358	CD	PRO	B	277	69.930	19.664	4.213	1.00	28.80	C
ATOM	5359	N	PHE	B	278	66.874	20.998	5.583	1.00	29.68	N
ATOM	5360	CA	PHE	B	278	66.039	21.636	6.596	1.00	29.63	C
ATOM	5361	C	PHE	B	278	65.486	22.983	6.204	1.00	30.07	C
ATOM	5362	O	PHE	B	278	64.911	23.682	7.045	1.00	31.17	O
ATOM	5363	CB	PHE	B	278	66.853	21.777	7.864	1.00	29.33	C
ATOM	5364	CG	PHE	B	278	67.433	20.477	8.334	1.00	29.74	C
ATOM	5365	CD1	PHE	B	278	66.656	19.583	9.081	1.00	29.52	C
ATOM	5366	CD2	PHE	B	278	68.758	20.141	8.022	1.00	29.44	C
ATOM	5367	CE1	PHE	B	278	67.195	18.363	9.523	1.00	30.41	C
ATOM	5368	CE2	PHE	B	278	69.308	18.931	8.455	1.00	29.48	C



ATOM	5369	CZ	PHE	B	278	68.536	18.041	9.206	1.00	29.95	C
ATOM	5370	N	ALA	B	279	65.613	23.352	4.940	1.00	30.04	N
ATOM	5371	CA	ALA	B	279	65.127	24.668	4.523	1.00	29.54	C
ATOM	5372	C	ALA	B	279	64.467	24.668	3.153	1.00	29.39	C
ATOM	5373	O	ALA	B	279	64.971	24.034	2.215	1.00	28.66	O
ATOM	5374	CB	ALA	B	279	66.297	25.651	4.532	1.00	29.94	C
ATOM	5375	N	ASP	B	280	63.351	25.383	3.019	1.00	28.28	N
ATOM	5376	CA	ASP	B	280	62.702	25.476	1.723	1.00	28.02	C
ATOM	5377	C	ASP	B	280	63.508	26.435	0.816	1.00	28.73	C
ATOM	5378	O	ASP	B	280	63.477	26.313	-0.400	1.00	27.72	O
ATOM	5379	CB	ASP	B	280	61.272	25.965	1.871	1.00	27.58	C
ATOM	5380	CG	ASP	B	280	60.417	25.018	2.709	1.00	28.89	C
ATOM	5381	OD1	ASP	B	280	60.453	23.777	2.456	1.00	27.08	O
ATOM	5382	OD2	ASP	B	280	59.711	25.516	3.621	1.00	26.78	O
ATOM	5383	N	LEU	B	281	64.223	27.387	1.426	1.00	28.86	N
ATOM	5384	CA	LEU	B	281	65.065	28.325	0.672	1.00	28.80	C
ATOM	5385	C	LEU	B	281	66.288	28.630	1.511	1.00	28.48	C
ATOM	5386	O	LEU	B	281	66.214	28.637	2.751	1.00	27.93	O
ATOM	5387	CB	LEU	B	281	64.332	29.634	0.368	1.00	29.13	C
ATOM	5388	CG	LEU	B	281	63.166	29.468	-0.613	1.00	30.25	C
ATOM	5389	CD1	LEU	B	281	61.866	29.627	0.148	1.00	31.16	C
ATOM	5390	CD2	LEU	B	281	63.233	30.518	-1.693	1.00	30.75	C
ATOM	5391	N	ILE	B	282	67.403	28.916	0.842	1.00	28.25	N
ATOM	5392	CA	ILE	B	282	68.632	29.226	1.533	1.00	28.75	C
ATOM	5393	C	ILE	B	282	69.103	30.588	1.075	1.00	29.32	C
ATOM	5394	O	ILE	B	282	68.998	30.947	-0.091	1.00	28.93	O
ATOM	5395	CB	ILE	B	282	69.695	28.178	1.262	1.00	30.17	C
ATOM	5396	CG1	ILE	B	282	69.120	26.777	1.563	1.00	30.24	C
ATOM	5397	CG2	ILE	B	282	70.913	28.471	2.127	1.00	29.74	C
ATOM	5398	CD1	ILE	B	282	70.132	25.615	1.419	1.00	30.77	C
ATOM	5399	N	TRP	B	283	69.628	31.341	2.022	1.00	29.75	N
ATOM	5400	CA	TRP	B	283	70.040	32.701	1.781	1.00	29.50	C
ATOM	5401	C	TRP	B	283	71.421	32.964	2.345	1.00	30.29	C
ATOM	5402	O	TRP	B	283	71.671	32.727	3.535	1.00	30.38	O
ATOM	5403	CB	TRP	B	283	68.996	33.607	2.464	1.00	28.69	C
ATOM	5404	CG	TRP	B	283	69.331	35.069	2.560	1.00	28.30	C
ATOM	5405	CD1	TRP	B	283	70.295	35.748	1.865	1.00	27.57	C
ATOM	5406	CD2	TRP	B	283	68.724	36.018	3.452	1.00	27.88	C
ATOM	5407	NE1	TRP	B	283	70.330	37.071	2.284	1.00	28.96	N
ATOM	5408	CE2	TRP	B	283	69.378	37.255	3.259	1.00	28.08	C
ATOM	5409	CE3	TRP	B	283	67.680	35.937	4.404	1.00	28.44	C
ATOM	5410	CZ2	TRP	B	283	69.039	38.401	3.982	1.00	28.52	C
ATOM	5411	CZ3	TRP	B	283	67.332	37.091	5.126	1.00	27.59	C
ATOM	5412	CH2	TRP	B	283	68.011	38.303	4.912	1.00	28.45	C
ATOM	5413	N	MET	B	284	72.318	33.439	1.483	1.00	30.31	N
ATOM	5414	CA	MET	B	284	73.653	33.799	1.893	1.00	30.96	C
ATOM	5415	C	MET	B	284	73.615	35.322	2.156	1.00	31.33	C
ATOM	5416	O	MET	B	284	73.478	36.128	1.223	1.00	30.83	O
ATOM	5417	CB	MET	B	284	74.654	33.490	0.775	1.00	31.41	C
ATOM	5418	CG	MET	B	284	76.037	34.046	1.061	1.00	34.09	C
ATOM	5419	SD	MET	B	284	77.313	33.529	-0.179	1.00	33.68	S
ATOM	5420	CE	MET	B	284	76.632	34.404	-1.675	1.00	36.96	C
ATOM	5421	N	GLU	B	285	73.687	35.732	3.419	1.00	31.41	N
ATOM	5422	CA	GLU	B	285	73.659	37.172	3.714	1.00	32.46	C
ATOM	5423	C	GLU	B	285	74.874	37.816	3.043	1.00	33.08	C
ATOM	5424	O	GLU	B	285	75.983	37.282	3.110	1.00	32.03	O
ATOM	5425	CB	GLU	B	285	73.713	37.405	5.242	1.00	32.63	C
ATOM	5426	CG	GLU	B	285	74.225	38.759	5.683	1.00	32.72	C
ATOM	5427	CD	GLU	B	285	73.242	39.883	5.430	1.00	32.89	C
ATOM	5428	OE1	GLU	B	285	72.264	39.681	4.681	1.00	33.25	O
ATOM	5429	OE2	GLU	B	285	73.460	40.981	5.975	1.00	33.12	O
ATOM	5430	N	THR	B	286	74.682	38.953	2.389	1.00	34.34	N
ATOM	5431	CA	THR	B	286	75.834	39.590	1.789	1.00	36.18	C
ATOM	5432	C	THR	B	286	75.796	41.108	1.882	1.00	36.89	C
ATOM	5433	O	THR	B	286	74.725	41.721	1.967	1.00	36.82	O
ATOM	5434	CB	THR	B	286	76.042	39.165	0.314	1.00	37.35	C
ATOM	5435	OG1	THR	B	286	77.333	39.654	-0.116	1.00	39.69	O
ATOM	5436	CG2	THR	B	286	74.950	39.734	-0.587	1.00	35.62	C
ATOM	5437	N	GLY	B	287	76.982	41.705	1.874	1.00	37.77	N
ATOM	5438	CA	GLY	B	287	77.083	43.147	2.003	1.00	38.69	C
ATOM	5439	C	GLY	B	287	77.156	43.922	0.707	1.00	38.84	C
ATOM	5440	O	GLY	B	287	76.635	45.042	0.618	1.00	40.44	O
ATOM	5441	N	THR	B	288	77.787	43.326	-0.296	1.00	38.14	N
ATOM	5442	CA	THR	B	288	77.960	43.951	-1.600	1.00	37.62	C
ATOM	5443	C	THR	B	288	77.339	43.075	-2.679	1.00	36.28	C
ATOM	5444	O	THR	B	288	77.689	41.900	-2.801	1.00	36.07	O
ATOM	5445	CB	THR	B	288	79.477	44.105	-1.941	1.00	38.12	C
ATOM	5446	OG1	THR	B	288	80.120	44.878	-0.923	1.00	39.54	O
ATOM	5447	CG2	THR	B	288	79.671	44.794	-3.273	1.00	37.01	C
ATOM	5448	N	PRO	B	289	76.405	43.625	-3.466	1.00	35.48	N



ATOM	5449	CA	PRO	B	289	75.842	42.751	-4.502	1.00	35.22	C
ATOM	5450	C	PRO	B	289	76.998	42.286	-5.392	1.00	34.82	C
ATOM	5451	O	PRO	B	289	77.877	43.063	-5.764	1.00	35.06	O
ATOM	5452	CB	PRO	B	289	74.818	43.640	-5.208	1.00	35.39	C
ATOM	5453	CG	PRO	B	289	75.234	45.055	-4.844	1.00	35.92	C
ATOM	5454	CD	PRO	B	289	75.754	44.943	-3.442	1.00	35.52	C
ATOM	5455	N	ASP	B	290	77.025	41.002	-5.684	1.00	34.39	N
ATOM	5456	CA	ASP	B	290	78.109	40.445	-6.464	1.00	33.84	C
ATOM	5457	C	ASP	B	290	77.598	39.262	-7.264	1.00	33.13	C
ATOM	5458	O	ASP	B	290	77.439	38.160	-6.735	1.00	31.86	O
ATOM	5459	CB	ASP	B	290	79.222	40.020	-5.498	1.00	34.43	C
ATOM	5460	CG	ASP	B	290	80.436	39.440	-6.206	1.00	35.23	C
ATOM	5461	OD1	ASP	B	290	80.319	38.984	-7.360	1.00	34.16	O
ATOM	5462	OD2	ASP	B	290	81.514	39.425	-5.576	1.00	36.28	O
ATOM	5463	N	LEU	B	291	77.339	39.487	-8.545	1.00	33.21	N
ATOM	5464	CA	LEU	B	291	76.832	38.417	-9.394	1.00	34.20	C
ATOM	5465	C	LEU	B	291	77.714	37.183	-9.426	1.00	34.25	C
ATOM	5466	O	LEU	B	291	77.209	36.070	-9.486	1.00	34.70	O
ATOM	5467	CB	LEU	B	291	76.653	38.896	-10.830	1.00	34.95	C
ATOM	5468	CG	LEU	B	291	75.356	39.595	-11.169	1.00	36.63	C
ATOM	5469	CD1	LEU	B	291	75.314	39.806	-12.678	1.00	36.66	C
ATOM	5470	CD2	LEU	B	291	74.167	38.702	-10.744	1.00	36.62	C
ATOM	5471	N	GLU	B	292	79.025	37.371	-9.417	1.00	34.68	N
ATOM	5472	CA	GLU	B	292	79.938	36.223	-9.449	1.00	35.44	C
ATOM	5473	C	GLU	B	292	79.822	35.400	-8.160	1.00	34.71	C
ATOM	5474	O	GLU	B	292	79.696	34.170	-8.218	1.00	34.40	O
ATOM	5475	CB	GLU	B	292	81.389	36.681	-9.659	1.00	36.99	C
ATOM	5476	CG	GLU	B	292	82.398	35.542	-9.887	1.00	39.19	C
ATOM	5477	CD	GLU	B	292	81.906	34.430	-10.851	1.00	41.48	C
ATOM	5478	OE1	GLU	B	292	81.323	34.717	-11.924	1.00	41.48	O
ATOM	5479	OE2	GLU	B	292	82.122	33.240	-10.532	1.00	42.89	O
ATOM	5480	N	ALA	B	293	79.833	36.069	-7.002	1.00	33.57	N
ATOM	5481	CA	ALA	B	293	79.704	35.348	-5.726	1.00	32.55	C
ATOM	5482	C	ALA	B	293	78.365	34.609	-5.714	1.00	32.00	C
ATOM	5483	O	ALA	B	293	78.298	33.418	-5.371	1.00	31.78	O
ATOM	5484	CB	ALA	B	293	79.802	36.321	-4.535	1.00	32.29	C
ATOM	5485	N	ALA	B	294	77.299	35.305	-6.111	1.00	31.42	N
ATOM	5486	CA	ALA	B	294	75.969	34.681	-6.190	1.00	31.37	C
ATOM	5487	C	ALA	B	294	75.985	33.422	-7.085	1.00	31.80	C
ATOM	5488	O	ALA	B	294	75.406	32.379	-6.745	1.00	30.59	O
ATOM	5489	CB	ALA	B	294	74.956	35.679	-6.743	1.00	29.58	C
ATOM	5490	N	ARG	B	295	76.628	33.532	-8.250	1.00	32.71	N
ATOM	5491	CA	ARG	B	295	76.711	32.397	-9.171	1.00	33.57	C
ATOM	5492	C	ARG	B	295	77.502	31.255	-8.525	1.00	33.75	C
ATOM	5493	O	ARG	B	295	77.104	30.082	-8.567	1.00	34.00	O
ATOM	5494	CB	ARG	B	295	77.378	32.837	-10.471	1.00	34.34	C
ATOM	5495	CG	ARG	B	295	77.432	31.770	-11.571	1.00	36.69	C
ATOM	5496	CD	ARG	B	295	78.052	32.347	-12.865	1.00	37.32	C
ATOM	5497	NE	ARG	B	295	77.234	33.420	-13.434	1.00	39.64	N
ATOM	5498	CZ	ARG	B	295	77.562	34.719	-13.433	1.00	41.85	C
ATOM	5499	NH1	ARG	B	295	78.713	35.150	-12.888	1.00	41.08	N
ATOM	5500	NH2	ARG	B	295	76.726	35.612	-13.987	1.00	43.14	N
ATOM	5501	N	GLN	B	296	78.613	31.600	-7.904	1.00	34.35	N
ATOM	5502	CA	GLN	B	296	79.455	30.603	-7.272	1.00	35.05	C
ATOM	5503	C	GLN	B	296	78.663	29.915	-6.159	1.00	34.72	C
ATOM	5504	O	GLN	B	296	78.639	28.682	-6.062	1.00	34.24	O
ATOM	5505	CB	GLN	B	296	80.695	31.289	-6.719	1.00	37.55	C
ATOM	5506	CG	GLN	B	296	81.814	30.340	-6.400	1.00	41.21	C
ATOM	5507	CD	GLN	B	296	82.962	30.987	-5.649	1.00	42.75	C
ATOM	5508	OE1	GLN	B	296	83.724	30.295	-4.970	1.00	44.83	O
ATOM	5509	NE2	GLN	B	296	83.102	32.299	-5.765	1.00	43.35	N
ATOM	5510	N	PHE	B	297	77.987	30.700	-5.325	1.00	33.37	N
ATOM	5511	CA	PHE	B	297	77.214	30.106	-4.228	1.00	32.62	C
ATOM	5512	C	PHE	B	297	76.110	29.218	-4.753	1.00	32.69	C
ATOM	5513	O	PHE	B	297	75.977	28.076	-4.309	1.00	32.67	O
ATOM	5514	CB	PHE	B	297	76.611	31.201	-3.330	1.00	31.74	C
ATOM	5515	CG	PHE	B	297	75.671	30.682	-2.256	1.00	32.01	C
ATOM	5516	CD1	PHE	B	297	76.167	30.091	-1.096	1.00	31.54	C
ATOM	5517	CD2	PHE	B	297	74.289	30.874	-2.370	1.00	32.02	C
ATOM	5518	CE1	PHE	B	297	75.311	29.722	-0.069	1.00	31.70	C
ATOM	5519	CE2	PHE	B	297	73.421	30.500	-1.328	1.00	31.59	C
ATOM	5520	CZ	PHE	B	297	73.937	29.932	-0.188	1.00	30.94	C
ATOM	5521	N	SER	B	298	75.306	29.707	-5.697	1.00	32.99	N
ATOM	5522	CA	SER	B	298	74.212	28.873	-6.169	1.00	34.02	C
ATOM	5523	C	SER	B	298	74.633	27.618	-6.913	1.00	34.11	C
ATOM	5524	O	SER	B	298	74.026	26.571	-6.706	1.00	33.58	O
ATOM	5525	CB	SER	B	298	73.214	29.660	-7.032	1.00	35.14	C
ATOM	5526	OG	SER	B	298	73.782	30.123	-8.233	1.00	36.37	O
ATOM	5527	N	GLU	B	299	75.656	27.704	-7.760	1.00	34.57	N
ATOM	5528	CA	GLU	B	299	76.098	26.521	-8.498	1.00	35.77	C



ATOM	5529	C	GLU	B	299	76.639	25.456	-7.529	1.00	35.67	C
ATOM	5530	O	GLU	B	299	76.374	24.267	-7.710	1.00	36.15	O
ATOM	5531	CB	GLU	B	299	77.156	26.904	-9.570	1.00	36.85	C
ATOM	5532	CG	GLU	B	299	76.590	27.880	-10.601	1.00	39.25	C
ATOM	5533	CD	GLU	B	299	77.456	28.112	-11.842	1.00	40.76	C
ATOM	5534	OE1	GLU	B	299	78.676	27.826	-11.809	1.00	41.42	O
ATOM	5535	OE2	GLU	B	299	76.885	28.611	-12.855	1.00	42.55	O
ATOM	5536	N	ALA	B	300	77.362	25.880	-6.490	1.00	35.18	N
ATOM	5537	CA	ALA	B	300	77.915	24.944	-5.509	1.00	34.91	C
ATOM	5538	C	ALA	B	300	76.789	24.229	-4.713	1.00	35.22	C
ATOM	5539	O	ALA	B	300	76.859	23.024	-4.453	1.00	35.09	O
ATOM	5540	CB	ALA	B	300	78.887	25.684	-4.553	1.00	34.18	C
ATOM	5541	N	VAL	B	301	75.735	24.963	-4.354	1.00	34.75	N
ATOM	5542	CA	VAL	B	301	74.629	24.366	-3.608	1.00	34.04	C
ATOM	5543	C	VAL	B	301	73.823	23.437	-4.522	1.00	34.79	C
ATOM	5544	O	VAL	B	301	73.450	22.312	-4.143	1.00	34.07	O
ATOM	5545	CB	VAL	B	301	73.674	25.464	-3.049	1.00	33.40	C
ATOM	5546	CG1	VAL	B	301	72.438	24.826	-2.408	1.00	33.38	C
ATOM	5547	CG2	VAL	B	301	74.394	26.309	-2.031	1.00	32.54	C
ATOM	5548	N	LYS	B	302	73.557	23.900	-5.736	1.00	35.37	N
ATOM	5549	CA	LYS	B	302	72.763	23.108	-6.647	1.00	36.70	C
ATOM	5550	C	LYS	B	302	73.491	21.866	-7.184	1.00	37.28	C
ATOM	5551	O	LYS	B	302	72.838	20.930	-7.661	1.00	36.80	O
ATOM	5552	CB	LYS	B	302	72.234	23.980	-7.791	1.00	37.10	C
ATOM	5553	CG	LYS	B	302	71.104	24.941	-7.377	1.00	37.78	C
ATOM	5554	CD	LYS	B	302	70.475	25.591	-8.608	1.00	39.08	C
ATOM	5555	CE	LYS	B	302	69.268	26.480	-8.281	1.00	39.76	C
ATOM	5556	NZ	LYS	B	302	68.004	25.768	-7.820	1.00	39.83	N
ATOM	5557	N	ALA	B	303	74.820	21.855	-7.093	1.00	37.75	N
ATOM	5558	CA	ALA	B	303	75.594	20.700	-7.543	1.00	39.19	C
ATOM	5559	C	ALA	B	303	75.232	19.564	-6.590	1.00	40.50	C
ATOM	5560	O	ALA	B	303	75.278	18.389	-6.951	1.00	41.27	O
ATOM	5561	CB	ALA	B	303	77.089	20.985	-7.468	1.00	37.76	C
ATOM	5562	N	GLU	B	304	74.868	19.913	-5.364	1.00	40.78	N
ATOM	5563	CA	GLU	B	304	74.481	18.905	-4.385	1.00	41.41	C
ATOM	5564	C	GLU	B	304	72.975	18.756	-4.320	1.00	40.52	C
ATOM	5565	O	GLU	B	304	72.474	17.650	-4.197	1.00	40.47	O
ATOM	5566	CB	GLU	B	304	74.985	19.272	-2.990	1.00	43.57	C
ATOM	5567	CG	GLU	B	304	76.478	19.166	-2.823	1.00	47.24	C
ATOM	5568	CD	GLU	B	304	76.929	17.733	-2.932	1.00	49.36	C
ATOM	5569	OE1	GLU	B	304	76.298	16.886	-2.261	1.00	50.86	O
ATOM	5570	OE2	GLU	B	304	77.895	17.451	-3.680	1.00	50.66	O
ATOM	5571	N	TYR	B	305	72.253	19.872	-4.390	1.00	39.56	N
ATOM	5572	CA	TYR	B	305	70.801	19.847	-4.319	1.00	38.90	C
ATOM	5573	C	TYR	B	305	70.253	20.647	-5.483	1.00	38.90	C
ATOM	5574	O	TYR	B	305	69.842	21.797	-5.327	1.00	38.63	O
ATOM	5575	CB	TYR	B	305	70.324	20.445	-2.988	1.00	38.75	C
ATOM	5576	CG	TYR	B	305	70.878	19.741	-1.760	1.00	38.12	C
ATOM	5577	CD1	TYR	B	305	72.114	20.072	-1.233	1.00	38.25	C
ATOM	5578	CD2	TYR	B	305	70.169	18.723	-1.154	1.00	38.95	C
ATOM	5579	CE1	TYR	B	305	72.637	19.393	-0.107	1.00	38.88	C
ATOM	5580	CE2	TYR	B	305	70.673	18.041	-0.050	1.00	39.20	C
ATOM	5581	CZ	TYR	B	305	71.906	18.382	0.466	1.00	39.34	C
ATOM	5582	OH	TYR	B	305	72.391	17.667	1.533	1.00	40.86	O
ATOM	5583	N	PRO	B	306	70.195	20.024	-6.673	1.00	38.62	N
ATOM	5584	CA	PRO	B	306	69.702	20.673	-7.888	1.00	38.09	C
ATOM	5585	C	PRO	B	306	68.387	21.456	-7.808	1.00	37.41	C
ATOM	5586	O	PRO	B	306	68.261	22.502	-8.434	1.00	36.63	O
ATOM	5587	CB	PRO	B	306	69.649	19.520	-8.918	1.00	38.76	C
ATOM	5588	CG	PRO	B	306	69.644	18.255	-8.059	1.00	39.00	C
ATOM	5589	CD	PRO	B	306	70.543	18.611	-6.918	1.00	38.78	C
ATOM	5590	N	ASP	B	307	67.412	20.968	-7.062	1.00	36.52	N
ATOM	5591	CA	ASP	B	307	66.148	21.690	-6.977	1.00	36.23	C
ATOM	5592	C	ASP	B	307	66.037	22.687	-5.810	1.00	35.50	O
ATOM	5593	O	ASP	B	307	64.959	23.224	-5.561	1.00	35.11	O
ATOM	5594	CB	ASP	B	307	64.997	20.704	-6.881	1.00	37.39	C
ATOM	5595	CG	ASP	B	307	64.942	19.763	-8.082	1.00	39.35	C
ATOM	5596	OD1	ASP	B	307	65.440	20.144	-9.163	1.00	39.75	O
ATOM	5597	OD2	ASP	B	307	64.392	18.651	-7.936	1.00	40.85	O
ATOM	5598	N	GLN	B	308	67.131	22.930	-5.099	1.00	33.98	N
ATOM	5599	CA	GLN	B	308	67.099	23.849	-3.959	1.00	33.05	C
ATOM	5600	C	GLN	B	308	66.912	25.315	-4.376	1.00	32.27	C
ATOM	5601	O	GLN	B	308	67.760	25.861	-5.069	1.00	32.84	O
ATOM	5602	CB	GLN	B	308	68.401	23.727	-3.156	1.00	32.16	C
ATOM	5603	CG	GLN	B	308	68.460	24.671	-1.944	1.00	31.38	C
ATOM	5604	CD	GLN	B	308	67.364	24.346	-0.931	1.00	31.08	C
ATOM	5605	OE1	GLN	B	308	66.423	25.139	-0.726	1.00	31.49	O
ATOM	5606	NE2	GLN	B	308	67.464	23.189	-0.316	1.00	28.92	N
ATOM	5607	N	MET	B	309	65.814	25.939	-3.965	1.00	31.46	N
ATOM	5608	CA	MET	B	309	65.585	27.349	-4.280	1.00	30.96	C



ATOM	5609	C	MET	B	309	66.370	28.224	-3.313	1.00	29.87	C
ATOM	5610	O	MET	B	309	66.600	27.852	-2.156	1.00	29.32	O
ATOM	5611	CB	MET	B	309	64.097	27.696	-4.203	1.00	31.49	C
ATOM	5612	CG	MET	B	309	63.276	26.974	-5.277	1.00	33.56	C
ATOM	5613	SD	MET	B	309	61.550	27.437	-5.185	1.00	35.32	S
ATOM	5614	CE	MET	B	309	61.060	26.636	-3.625	1.00	34.76	C
ATOM	5615	N	LEU	B	310	66.780	29.394	-3.793	1.00	29.15	N
ATOM	5616	CA	LEU	B	310	67.564	30.305	-2.976	1.00	28.24	C
ATOM	5617	C	LEU	B	310	66.868	31.639	-2.804	1.00	27.76	C
ATOM	5618	O	LEU	B	310	65.992	31.975	-3.589	1.00	28.40	O
ATOM	5619	CB	LEU	B	310	68.923	30.515	-3.630	1.00	27.82	C
ATOM	5620	CG	LEU	B	310	69.590	29.205	-4.046	1.00	28.92	C
ATOM	5621	CD1	LEU	B	310	70.729	29.555	-4.969	1.00	29.55	C
ATOM	5622	CD2	LEU	B	310	70.094	28.437	-2.801	1.00	28.37	C
ATOM	5623	N	ALA	B	311	67.264	32.400	-1.784	1.00	27.65	N
ATOM	5624	CA	ALA	B	311	66.684	33.727	-1.536	1.00	27.26	C
ATOM	5625	C	ALA	B	311	67.841	34.740	-1.584	1.00	27.09	C
ATOM	5626	O	ALA	B	311	68.972	34.392	-1.274	1.00	27.12	O
ATOM	5627	CB	ALA	B	311	66.021	33.754	-0.176	1.00	26.83	C
ATOM	5628	N	TYR	B	312	67.555	35.987	-1.940	1.00	27.12	N
ATOM	5629	CA	TYR	B	312	68.612	36.996	-2.071	1.00	27.58	C
ATOM	5630	C	TYR	B	312	68.195	38.404	-1.638	1.00	27.97	C
ATOM	5631	O	TYR	B	312	67.164	38.881	-2.111	1.00	28.06	O
ATOM	5632	CB	TYR	B	312	69.046	37.051	-3.548	1.00	27.63	C
ATOM	5633	CG	TYR	B	312	70.315	37.830	-3.812	1.00	27.46	C
ATOM	5634	CD1	TYR	B	312	70.292	39.215	-3.972	1.00	27.21	C
ATOM	5635	CD2	TYR	B	312	71.548	37.170	-3.877	1.00	27.98	C
ATOM	5636	CE1	TYR	B	312	71.468	39.934	-4.190	1.00	27.87	C
ATOM	5637	CE2	TYR	B	312	72.737	37.876	-4.084	1.00	28.24	C
ATOM	5638	CZ	TYR	B	312	72.681	39.255	-4.237	1.00	28.72	C
ATOM	5639	OH	TYR	B	312	73.860	39.932	-4.408	1.00	30.44	O
ATOM	5640	N	ASN	B	313	68.967	39.066	-0.752	1.00	28.20	N
ATOM	5641	CA	ASN	B	313	68.638	40.459	-0.385	1.00	28.58	C
ATOM	5642	C	ASN	B	313	69.472	41.357	-1.288	1.00	28.11	C
ATOM	5643	O	ASN	B	313	70.702	41.187	-1.369	1.00	26.83	O
ATOM	5644	CB	ASN	B	313	68.974	40.830	1.092	1.00	30.70	C
ATOM	5645	CG	ASN	B	313	68.722	42.389	1.424	1.00	33.18	C
ATOM	5646	OD1	ASN	B	313	67.805	43.041	0.856	1.00	33.52	O
ATOM	5647	ND2	ASN	B	313	69.544	42.964	2.358	1.00	34.31	N
ATOM	5648	N	CYS	B	314	68.806	42.280	-1.979	1.00	27.65	N
ATOM	5649	CA	CYS	B	314	69.504	43.247	-2.819	1.00	27.61	C
ATOM	5650	C	CYS	B	314	69.859	44.413	-1.911	1.00	27.44	C
ATOM	5651	O	CYS	B	314	68.982	45.133	-1.431	1.00	26.38	O
ATOM	5652	CB	CYS	B	314	68.608	43.684	-3.978	1.00	27.50	C
ATOM	5653	SG	CYS	B	314	68.237	42.284	-5.079	1.00	28.26	S
ATOM	5654	N	SER	B	315	71.159	44.623	-1.703	1.00	27.58	N
ATOM	5655	CA	SER	B	315	71.623	45.663	-0.786	1.00	28.38	C
ATOM	5656	C	SER	B	315	70.966	47.037	-0.881	1.00	28.52	C
ATOM	5657	O	SER	B	315	70.950	47.664	-1.947	1.00	27.88	O
ATOM	5658	CB	SER	B	315	73.133	45.862	-0.917	1.00	28.56	C
ATOM	5659	OG	SER	B	315	73.535	46.945	-0.086	1.00	30.06	O
ATOM	5660	N	PRO	B	316	70.421	47.533	0.246	1.00	28.23	N
ATOM	5661	CA	PRO	B	316	69.795	48.855	0.174	1.00	28.18	C
ATOM	5662	C	PRO	B	316	70.838	49.938	0.337	1.00	28.58	C
ATOM	5663	O	PRO	B	316	70.591	51.074	0.004	1.00	29.14	O
ATOM	5664	CB	PRO	B	316	68.800	48.843	1.362	1.00	28.38	C
ATOM	5665	CG	PRO	B	316	69.525	47.982	2.376	1.00	27.45	C
ATOM	5666	CD	PRO	B	316	70.074	46.845	1.512	1.00	27.99	C
ATOM	5667	N	SER	B	317	72.004	49.595	0.878	1.00	29.70	N
ATOM	5668	CA	SER	B	317	73.046	50.599	1.121	1.00	30.16	C
ATOM	5669	C	SER	B	317	74.110	50.733	0.021	1.00	30.88	C
ATOM	5670	O	SER	B	317	74.793	51.750	-0.060	1.00	30.57	O
ATOM	5671	CB	SER	B	317	73.746	50.304	2.447	1.00	30.11	C
ATOM	5672	OG	SER	B	317	74.342	49.008	2.418	1.00	30.40	O
ATOM	5673	N	PHE	B	318	74.259	49.709	-0.808	1.00	30.53	N
ATOM	5674	CA	PHE	B	318	75.232	49.745	-1.904	1.00	31.33	C
ATOM	5675	C	PHE	B	318	74.952	50.921	-2.834	1.00	31.00	C
ATOM	5676	O	PHE	B	318	73.801	51.173	-3.181	1.00	30.80	O
ATOM	5677	CB	PHE	B	318	75.130	48.458	-2.716	1.00	31.16	C
ATOM	5678	CG	PHE	B	318	76.148	48.338	-3.811	1.00	32.68	C
ATOM	5679	CD1	PHE	B	318	77.527	48.281	-3.510	1.00	33.29	C
ATOM	5680	CD2	PHE	B	318	75.741	48.178	-5.133	1.00	32.37	C
ATOM	5681	CE1	PHE	B	318	78.470	48.053	-4.518	1.00	33.59	C
ATOM	5682	CE2	PHE	B	318	76.697	47.950	-6.153	1.00	33.56	C
ATOM	5683	CZ	PHE	B	318	78.053	47.886	-5.832	1.00	32.35	C
ATOM	5684	N	ASN	B	319	75.991	51.636	-3.246	1.00	30.62	N
ATOM	5685	CA	ASN	B	319	75.791	52.752	-4.164	1.00	30.75	C
ATOM	5686	C	ASN	B	319	75.746	52.132	-5.556	1.00	31.14	C
ATOM	5687	O	ASN	B	319	76.776	52.054	-6.243	1.00	30.41	O
ATOM	5688	CB	ASN	B	319	76.953	53.725	-4.050	1.00	30.97	C



ATOM	5689	CG	ASN	B	319	76.698	55.043	-4.770	1.00	31.14	C
ATOM	5690	OD1	ASN	B	319	77.261	56.081	-4.381	1.00	33.20	O
ATOM	5691	ND2	ASN	B	319	75.885	55.023	-5.798	1.00	29.05	N
ATOM	5692	N	TRP	B	320	74.552	51.695	-5.963	1.00	30.73	N
ATOM	5693	CA	TRP	B	320	74.350	51.034	-7.259	1.00	31.76	C
ATOM	5694	C	TRP	B	320	74.838	51.822	-8.493	1.00	33.31	C
ATOM	5695	O	TRP	B	320	75.643	51.292	-9.271	1.00	32.66	O
ATOM	5696	CB	TRP	B	320	72.868	50.670	-7.456	1.00	30.96	C
ATOM	5697	CG	TRP	B	320	72.338	49.651	-6.440	1.00	29.83	C
ATOM	5698	CD1	TRP	B	320	71.904	49.913	-5.169	1.00	30.20	C
ATOM	5699	CD2	TRP	B	320	72.256	48.230	-6.606	1.00	29.76	C
ATOM	5700	NE1	TRP	B	320	71.559	48.741	-4.526	1.00	30.24	N
ATOM	5701	CE2	TRP	B	320	71.762	47.690	-5.384	1.00	29.86	C
ATOM	5702	CE3	TRP	B	320	72.547	47.357	-7.667	1.00	29.89	C
ATOM	5703	CZ2	TRP	B	320	71.554	46.318	-5.194	1.00	29.17	C
ATOM	5704	CZ3	TRP	B	320	72.339	45.993	-7.488	1.00	30.18	C
ATOM	5705	CH2	TRP	B	320	71.840	45.483	-6.244	1.00	30.19	C
ATOM	5706	N	LYS	B	321	74.363	53.065	-8.658	1.00	34.20	N
ATOM	5707	CA	LYS	B	321	74.728	53.891	-9.820	1.00	36.76	C
ATOM	5708	C	LYS	B	321	76.215	54.179	-9.933	1.00	36.58	C
ATOM	5709	O	LYS	B	321	76.754	54.278	-11.034	1.00	36.30	O
ATOM	5710	CB	LYS	B	321	73.982	55.231	-9.810	1.00	38.51	C
ATOM	5711	CG	LYS	B	321	72.806	55.311	-10.784	1.00	42.45	C
ATOM	5712	CD	LYS	B	321	72.470	56.780	-11.114	1.00	45.09	C
ATOM	5713	CE	LYS	B	321	71.483	56.941	-12.321	1.00	47.58	C
ATOM	5714	NZ	LYS	B	321	70.021	56.608	-12.013	1.00	48.17	N
ATOM	5715	N	LYS	B	322	76.872	54.330	-8.790	1.00	36.39	N
ATOM	5716	CA	LYS	B	322	78.291	54.609	-8.794	1.00	36.42	C
ATOM	5717	C	LYS	B	322	79.102	53.417	-9.298	1.00	35.69	C
ATOM	5718	O	LYS	B	322	80.100	53.589	-9.987	1.00	34.82	O
ATOM	5719	CB	LYS	B	322	78.762	54.963	-7.383	1.00	36.75	C
ATOM	5720	CG	LYS	B	322	80.265	55.119	-7.290	1.00	37.98	C
ATOM	5721	CD	LYS	B	322	80.709	55.454	-5.887	1.00	38.95	C
ATOM	5722	CE	LYS	B	322	82.228	55.607	-5.844	1.00	40.98	C
ATOM	5723	NZ	LYS	B	322	82.634	56.424	-4.681	1.00	42.45	N
ATOM	5724	N	HIS	B	323	78.657	52.210	-8.974	1.00	34.58	N
ATOM	5725	CA	HIS	B	323	79.403	51.016	-9.338	1.00	34.68	C
ATOM	5726	C	HIS	B	323	78.939	50.178	-10.510	1.00	34.07	C
ATOM	5727	O	HIS	B	323	79.692	49.326	-10.976	1.00	33.45	O
ATOM	5728	CB	HIS	B	323	79.505	50.094	-8.125	1.00	35.57	C
ATOM	5729	CG	HIS	B	323	80.250	50.704	-6.987	1.00	37.18	C
ATOM	5730	ND1	HIS	B	323	81.598	50.990	-7.054	1.00	36.96	N
ATOM	5731	CD2	HIS	B	323	79.832	51.123	-5.769	1.00	37.18	C
ATOM	5732	CE1	HIS	B	323	81.980	51.560	-5.923	1.00	37.23	C
ATOM	5733	NE2	HIS	B	323	80.928	51.651	-5.127	1.00	37.89	N
ATOM	5734	N	LEU	B	324	77.722	50.407	-10.981	1.00	32.67	N
ATOM	5735	CA	LEU	B	324	77.201	49.593	-12.058	1.00	32.51	C
ATOM	5736	C	LEU	B	324	76.490	50.481	-13.064	1.00	32.72	C
ATOM	5737	O	LEU	B	324	75.974	51.557	-12.707	1.00	31.34	O
ATOM	5738	CB	LEU	B	324	76.239	48.532	-11.482	1.00	31.80	C
ATOM	5739	CG	LEU	B	324	76.804	47.523	-10.456	1.00	32.37	C
ATOM	5740	CD1	LEU	B	324	75.676	46.636	-9.931	1.00	32.17	C
ATOM	5741	CD2	LEU	B	324	77.900	46.640	-11.111	1.00	32.00	C
ATOM	5742	N	ASP	B	325	76.483	50.052	-14.326	1.00	32.30	N
ATOM	5743	CA	ASP	B	325	75.805	50.833	-15.350	1.00	33.07	C
ATOM	5744	C	ASP	B	325	74.291	50.543	-15.279	1.00	33.34	C
ATOM	5745	O	ASP	B	325	73.837	49.660	-14.548	1.00	31.81	O
ATOM	5746	CB	ASP	B	325	76.403	50.555	-16.763	1.00	32.86	C
ATOM	5747	CG	ASP	B	325	76.151	49.125	-17.281	1.00	33.40	C
ATOM	5748	OD1	ASP	B	325	75.585	48.271	-16.557	1.00	33.58	O
ATOM	5749	OD2	ASP	B	325	76.533	48.836	-18.443	1.00	32.84	O
ATOM	5750	N	ASP	B	326	73.509	51.306	-16.015	1.00	33.68	N
ATOM	5751	CA	ASP	B	326	72.075	51.113	-15.955	1.00	34.31	C
ATOM	5752	C	ASP	B	326	71.577	49.751	-16.413	1.00	34.07	C
ATOM	5753	O	ASP	B	326	70.661	49.186	-15.796	1.00	33.17	O
ATOM	5754	CB	ASP	B	326	71.402	52.248	-16.702	1.00	35.29	C
ATOM	5755	CG	ASP	B	326	71.783	53.583	-16.120	1.00	36.95	C
ATOM	5756	OD1	ASP	B	326	71.636	53.740	-14.890	1.00	36.66	O
ATOM	5757	OD2	ASP	B	326	72.243	54.460	-16.876	1.00	38.31	O
ATOM	5758	N	ALA	B	327	72.200	49.196	-17.457	1.00	32.15	N
ATOM	5759	CA	ALA	B	327	71.783	47.893	-17.931	1.00	31.69	C
ATOM	5760	C	ALA	B	327	72.009	46.802	-16.873	1.00	31.03	C
ATOM	5761	O	ALA	B	327	71.164	45.926	-16.687	1.00	30.96	O
ATOM	5762	CB	ALA	B	327	72.531	47.538	-19.261	1.00	31.84	C
ATOM	5763	N	THR	B	328	73.144	46.842	-16.177	1.00	29.89	N
ATOM	5764	CA	THR	B	328	73.429	45.818	-15.169	1.00	29.39	C
ATOM	5765	C	THR	B	328	72.402	45.943	-14.013	1.00	28.67	C
ATOM	5766	O	THR	B	328	71.888	44.952	-13.492	1.00	28.12	O
ATOM	5767	CB	THR	B	328	74.866	45.987	-14.599	1.00	29.93	C
ATOM	5768	OG1	THR	B	328	75.820	45.945	-15.680	1.00	30.04	O



ATOM	5769	CG2	THR	B	328	75.177	44.854	-13.590	1.00	29.37	C
ATOM	5770	N	ILE	B	329	72.126	47.173	-13.615	1.00	27.80	N
ATOM	5771	CA	ILE	B	329	71.168	47.419	-12.548	1.00	28.23	C
ATOM	5772	C	ILE	B	329	69.793	46.845	-12.949	1.00	28.85	C
ATOM	5773	O	ILE	B	329	69.137	46.145	-12.156	1.00	27.88	O
ATOM	5774	CB	ILE	B	329	71.065	48.933	-12.271	1.00	27.22	C
ATOM	5775	CG1	ILE	B	329	72.348	49.391	-11.560	1.00	25.46	C
ATOM	5776	CG2	ILE	B	329	69.808	49.256	-11.418	1.00	27.34	C
ATOM	5777	CD1	ILE	B	329	72.486	50.883	-11.470	1.00	24.88	C
ATOM	5778	N	ALA	B	330	69.401	47.099	-14.202	1.00	29.04	N
ATOM	5779	CA	ALA	B	330	68.111	46.659	-14.739	1.00	29.24	C
ATOM	5780	C	ALA	B	330	67.974	45.167	-14.838	1.00	29.72	C
ATOM	5781	O	ALA	B	330	66.871	44.634	-14.670	1.00	29.85	O
ATOM	5782	CB	ALA	B	330	67.849	47.295	-16.150	1.00	28.27	C
ATOM	5783	N	LYS	B	331	69.071	44.467	-15.093	1.00	29.38	N
ATOM	5784	CA	LYS	B	331	68.967	43.020	-15.251	1.00	29.79	C
ATOM	5785	C	LYS	B	331	69.342	42.228	-14.010	1.00	29.52	C
ATOM	5786	O	LYS	B	331	69.182	41.000	-13.984	1.00	28.55	O
ATOM	5787	CB	LYS	B	331	69.874	42.541	-16.393	1.00	30.48	C
ATOM	5788	CG	LYS	B	331	71.369	42.411	-15.975	1.00	30.86	C
ATOM	5789	CD	LYS	B	331	72.322	42.193	-17.186	1.00	31.40	C
ATOM	5790	CE	LYS	B	331	73.692	41.687	-16.715	1.00	33.06	C
ATOM	5791	NZ	LYS	B	331	74.695	41.389	-17.812	1.00	33.36	N
ATOM	5792	N	PHE	B	332	69.829	42.924	-12.984	1.00	30.02	N
ATOM	5793	CA	PHE	B	332	70.313	42.229	-11.774	1.00	30.08	C
ATOM	5794	C	PHE	B	332	69.389	41.123	-11.247	1.00	30.00	C
ATOM	5795	O	PHE	B	332	69.784	39.956	-11.177	1.00	30.12	O
ATOM	5796	CB	PHE	B	332	70.623	43.240	-10.658	1.00	31.25	C
ATOM	5797	CG	PHE	B	332	71.768	42.827	-9.774	1.00	32.52	C
ATOM	5798	CD1	PHE	B	332	73.079	43.032	-10.175	1.00	33.80	C
ATOM	5799	CD2	PHE	B	332	71.534	42.239	-8.545	1.00	33.23	C
ATOM	5800	CE1	PHE	B	332	74.150	42.661	-9.359	1.00	34.56	C
ATOM	5801	CE2	PHE	B	332	72.586	41.866	-7.723	1.00	33.69	C
ATOM	5802	CZ	PHE	B	332	73.905	42.080	-8.130	1.00	33.47	C
ATOM	5803	N	GLN	B	333	68.151	41.458	-10.913	1.00	29.53	N
ATOM	5804	CA	GLN	B	333	67.246	40.436	-10.386	1.00	29.82	C
ATOM	5805	C	GLN	B	333	66.914	39.317	-11.392	1.00	29.90	C
ATOM	5806	O	GLN	B	333	66.835	38.158	-11.017	1.00	29.80	O
ATOM	5807	CB	GLN	B	333	65.944	41.089	-9.874	1.00	28.91	C
ATOM	5808	CG	GLN	B	333	66.144	42.014	-8.654	1.00	28.81	C
ATOM	5809	CD	GLN	B	333	64.875	42.136	-7.793	1.00	29.46	C
ATOM	5810	OE1	GLN	B	333	63.762	41.826	-8.243	1.00	29.24	O
ATOM	5811	NE2	GLN	B	333	65.043	42.593	-6.555	1.00	28.91	N
ATOM	5812	N	LYS	B	334	66.714	39.661	-12.655	1.00	30.41	N
ATOM	5813	CA	LYS	B	334	66.413	38.645	-13.658	1.00	31.29	C
ATOM	5814	C	LYS	B	334	67.577	37.658	-13.728	1.00	31.30	C
ATOM	5815	O	LYS	B	334	67.366	36.451	-13.780	1.00	31.03	O
ATOM	5816	CB	LYS	B	334	66.199	39.274	-15.041	1.00	32.28	C
ATOM	5817	CG	LYS	B	334	65.718	38.252	-16.078	1.00	35.08	C
ATOM	5818	CD	LYS	B	334	65.446	38.890	-17.422	1.00	37.76	C
ATOM	5819	CE	LYS	B	334	65.006	37.824	-18.422	1.00	39.52	C
ATOM	5820	NZ	LYS	B	334	63.748	37.170	-17.961	1.00	41.35	N
ATOM	5821	N	GLU	B	335	68.797	38.187	-13.717	1.00	31.89	N
ATOM	5822	CA	GLU	B	335	70.003	37.362	-13.760	1.00	32.71	C
ATOM	5823	C	GLU	B	335	70.043	36.443	-12.542	1.00	31.85	C
ATOM	5824	O	GLU	B	335	70.287	35.236	-12.674	1.00	31.48	O
ATOM	5825	CB	GLU	B	335	71.252	38.238	-13.782	1.00	34.50	C
ATOM	5826	CG	GLU	B	335	71.487	38.963	-15.097	1.00	38.97	C
ATOM	5827	CD	GLU	B	335	72.221	38.099	-16.128	1.00	41.01	C
ATOM	5828	OE1	GLU	B	335	73.407	37.724	-15.918	1.00	42.27	O
ATOM	5829	OE2	GLU	B	335	71.596	37.796	-17.150	1.00	42.51	O
ATOM	5830	N	LEU	B	336	69.802	36.994	-11.352	1.00	30.66	N
ATOM	5831	CA	LEU	B	336	69.801	36.139	-10.150	1.00	30.30	C
ATOM	5832	C	LEU	B	336	68.704	35.074	-10.234	1.00	30.06	C
ATOM	5833	O	LEU	B	336	68.887	33.933	-9.782	1.00	30.01	O
ATOM	5834	CB	LEU	B	336	69.568	36.979	-8.873	1.00	29.90	C
ATOM	5835	CG	LEU	B	336	70.682	37.947	-8.498	1.00	29.46	C
ATOM	5836	CD1	LEU	B	336	70.263	38.929	-7.376	1.00	29.26	C
ATOM	5837	CD2	LEU	B	336	71.871	37.096	-8.079	1.00	30.11	C
ATOM	5838	N	ALA	B	337	67.555	35.450	-10.789	1.00	29.64	N
ATOM	5839	CA	ALA	B	337	66.447	34.502	-10.876	1.00	30.65	C
ATOM	5840	C	ALA	B	337	66.896	33.280	-11.687	1.00	31.25	C
ATOM	5841	O	ALA	B	337	66.535	32.137	-11.359	1.00	30.39	O
ATOM	5842	CB	ALA	B	337	65.222	35.157	-11.536	1.00	29.93	C
ATOM	5843	N	ALA	B	338	67.685	33.535	-12.737	1.00	31.89	N
ATOM	5844	CA	ALA	B	338	68.160	32.447	-13.597	1.00	32.75	C
ATOM	5845	C	ALA	B	338	69.090	31.532	-12.838	1.00	33.22	C
ATOM	5846	O	ALA	B	338	69.230	30.359	-13.195	1.00	33.80	O
ATOM	5847	CB	ALA	B	338	68.865	33.003	-14.832	1.00	32.91	C
ATOM	5848	N	MET	B	339	69.726	32.045	-11.788	1.00	32.62	N



ATOM	5849	CA	MET	B	339	70.615	31.196	-11.007	1.00	32.74	C
ATOM	5850	C	MET	B	339	69.865	30.372	-9.938	1.00	32.57	C
ATOM	5851	O	MET	B	339	70.458	29.500	-9.288	1.00	32.31	O
ATOM	5852	CB	MET	B	339	71.673	32.041	-10.314	1.00	33.16	C
ATOM	5853	CG	MET	B	339	72.626	32.746	-11.240	1.00	33.39	C
ATOM	5854	SD	MET	B	339	73.599	33.855	-10.244	1.00	35.10	S
ATOM	5855	CE	MET	B	339	73.942	35.146	-11.384	1.00	34.20	C
ATOM	5856	N	GLY	B	340	68.568	30.641	-9.761	1.00	31.68	N
ATOM	5857	CA	GLY	B	340	67.797	29.931	-8.740	1.00	30.82	C
ATOM	5858	C	GLY	B	340	67.394	30.774	-7.509	1.00	30.23	C
ATOM	5859	O	GLY	B	340	66.892	30.243	-6.507	1.00	30.08	O
ATOM	5860	N	PHE	B	341	67.653	32.073	-7.552	1.00	29.04	N
ATOM	5861	CA	PHE	B	341	67.265	32.947	-6.436	1.00	28.42	C
ATOM	5862	C	PHE	B	341	65.826	33.324	-6.767	1.00	28.41	C
ATOM	5863	O	PHE	B	341	65.560	34.289	-7.486	1.00	28.94	O
ATOM	5864	CB	PHE	B	341	68.197	34.160	-6.384	1.00	27.06	C
ATOM	5865	CG	PHE	B	341	69.627	33.805	-6.001	1.00	27.09	C
ATOM	5866	CD1	PHE	B	341	69.975	33.570	-4.668	1.00	26.48	C
ATOM	5867	CD2	PHE	B	341	70.607	33.670	-6.976	1.00	26.62	C
ATOM	5868	CE1	PHE	B	341	71.275	33.212	-4.302	1.00	26.63	C
ATOM	5869	CE2	PHE	B	341	71.918	33.305	-6.629	1.00	26.76	C
ATOM	5870	CZ	PHE	B	341	72.261	33.079	-5.298	1.00	26.98	C
ATOM	5871	N	LYS	B	342	64.905	32.518	-6.255	1.00	28.63	N
ATOM	5872	CA	LYS	B	342	63.478	32.683	-6.524	1.00	29.04	C
ATOM	5873	C	LYS	B	342	62.737	33.635	-5.586	1.00	28.40	C
ATOM	5874	O	LYS	B	342	61.640	34.055	-5.901	1.00	28.48	O
ATOM	5875	CB	LYS	B	342	62.797	31.307	-6.540	1.00	29.62	C
ATOM	5876	CG	LYS	B	342	63.363	30.390	-7.636	1.00	31.72	C
ATOM	5877	CD	LYS	B	342	63.343	31.106	-8.994	1.00	32.91	C
ATOM	5878	CE	LYS	B	342	63.700	30.151	-10.142	1.00	34.44	C
ATOM	5879	NZ	LYS	B	342	63.712	30.881	-11.463	1.00	36.41	N
ATOM	5880	N	PHE	B	343	63.316	33.952	-4.431	1.00	28.13	N
ATOM	5881	CA	PHE	B	343	62.692	34.978	-3.568	1.00	27.48	C
ATOM	5882	C	PHE	B	343	63.717	36.107	-3.433	1.00	26.11	C
ATOM	5883	O	PHE	B	343	64.795	35.889	-2.899	1.00	26.74	O
ATOM	5884	CB	PHE	B	343	62.341	34.455	-2.171	1.00	26.74	C
ATOM	5885	CG	PHE	B	343	61.603	35.478	-1.336	1.00	27.52	C
ATOM	5886	CD1	PHE	B	343	60.354	35.943	-1.745	1.00	27.56	C
ATOM	5887	CD2	PHE	B	343	62.187	36.033	-0.196	1.00	27.31	C
ATOM	5888	CE1	PHE	B	343	59.691	36.966	-1.030	1.00	27.58	C
ATOM	5889	CE2	PHE	B	343	61.547	37.034	0.507	1.00	27.37	C
ATOM	5890	CZ	PHE	B	343	60.290	37.506	0.087	1.00	26.79	C
ATOM	5891	N	GLN	B	344	63.390	37.312	-3.905	1.00	25.64	N
ATOM	5892	CA	GLN	B	344	64.324	38.432	-3.835	1.00	25.23	C
ATOM	5893	C	GLN	B	344	63.650	39.627	-3.169	1.00	25.32	C
ATOM	5894	O	GLN	B	344	62.456	39.863	-3.338	1.00	25.60	O
ATOM	5895	CB	GLN	B	344	64.836	38.810	-5.245	1.00	24.91	C
ATOM	5896	CG	GLN	B	344	65.588	37.643	-5.935	1.00	26.43	C
ATOM	5897	CD	GLN	B	344	66.079	37.972	-7.360	1.00	27.71	C
ATOM	5898	OE1	GLN	B	344	66.036	37.107	-8.275	1.00	29.90	O
ATOM	5899	NE2	GLN	B	344	66.548	39.181	-7.554	1.00	26.07	N
ATOM	5900	N	PHE	B	345	64.429	40.418	-2.457	1.00	24.80	N
ATOM	5901	CA	PHE	B	345	63.835	41.527	-1.725	1.00	25.16	C
ATOM	5902	C	PHE	B	345	64.867	42.593	-1.391	1.00	25.10	C
ATOM	5903	O	PHE	B	345	66.082	42.362	-1.521	1.00	25.39	O
ATOM	5904	CB	PHE	B	345	63.220	40.993	-0.405	1.00	23.95	C
ATOM	5905	CG	PHE	B	345	64.159	40.109	0.414	1.00	23.96	C
ATOM	5906	CD1	PHE	B	345	64.412	38.775	0.033	1.00	23.94	C
ATOM	5907	CD2	PHE	B	345	64.818	40.615	1.526	1.00	23.71	C
ATOM	5908	CE1	PHE	B	345	65.320	37.970	0.760	1.00	24.75	C
ATOM	5909	CE2	PHE	B	345	65.736	39.822	2.270	1.00	24.07	C
ATOM	5910	CZ	PHE	B	345	65.984	38.513	1.891	1.00	25.40	C
ATOM	5911	N	ILE	B	346	64.362	43.766	-1.013	1.00	24.59	N
ATOM	5912	CA	ILE	B	346	65.208	44.870	-0.550	1.00	24.19	C
ATOM	5913	C	ILE	B	346	64.707	45.075	0.881	1.00	24.02	C
ATOM	5914	O	ILE	B	346	63.596	45.578	1.099	1.00	23.75	O
ATOM	5915	CB	ILE	B	346	64.967	46.162	-1.324	1.00	23.64	C
ATOM	5916	CG1	ILE	B	346	65.338	45.959	-2.805	1.00	24.88	C
ATOM	5917	CG2	ILE	B	346	65.867	47.265	-0.746	1.00	22.22	C
ATOM	5918	CD1	ILE	B	346	64.997	47.184	-3.687	1.00	24.33	C
ATOM	5919	N	THR	B	347	65.510	44.664	1.844	1.00	24.28	N
ATOM	5920	CA	THR	B	347	65.141	44.740	3.261	1.00	24.27	C
ATOM	5921	C	THR	B	347	64.666	46.104	3.770	1.00	24.51	C
ATOM	5922	O	THR	B	347	63.623	46.193	4.398	1.00	23.66	O
ATOM	5923	CB	THR	B	347	66.350	44.332	4.166	1.00	24.60	C
ATOM	5924	OG1	THR	B	347	67.494	45.122	3.799	1.00	23.32	O
ATOM	5925	CG2	THR	B	347	66.695	42.822	3.984	1.00	24.13	C
ATOM	5926	N	LEU	B	348	65.422	47.162	3.471	1.00	24.23	N
ATOM	5927	CA	LEU	B	348	65.095	48.467	4.022	1.00	24.03	C
ATOM	5928	C	LEU	B	348	64.362	49.425	3.098	1.00	23.79	C



ATOM	5929	O	LEU	B	348	64.434	50.654	3.269	1.00	23.61	O
ATOM	5930	CB	LEU	B	348	66.394	49.105	4.532	1.00	24.61	C
ATOM	5931	CG	LEU	B	348	67.266	48.172	5.411	1.00	25.42	C
ATOM	5932	CD1	LEU	B	348	68.352	49.017	6.148	1.00	24.77	C
ATOM	5933	CD2	LEU	B	348	66.406	47.457	6.458	1.00	23.63	C
ATOM	5934	N	ALA	B	349	63.614	48.886	2.148	1.00	23.53	N
ATOM	5935	CA	ALA	B	349	62.917	49.769	1.207	1.00	24.07	C
ATOM	5936	C	ALA	B	349	61.951	50.690	1.928	1.00	23.23	C
ATOM	5937	O	ALA	B	349	61.842	51.863	1.573	1.00	22.85	O
ATOM	5938	CB	ALA	B	349	62.148	48.948	0.141	1.00	23.00	C
ATOM	5939	N	GLY	B	350	61.247	50.167	2.935	1.00	23.12	N
ATOM	5940	CA	GLY	B	350	60.266	51.000	3.646	1.00	22.46	C
ATOM	5941	C	GLY	B	350	60.937	52.092	4.477	1.00	23.24	C
ATOM	5942	O	GLY	B	350	60.498	53.245	4.503	1.00	23.42	O
ATOM	5943	N	PHE	B	351	61.991	51.718	5.188	1.00	22.88	N
ATOM	5944	CA	PHE	B	351	62.757	52.672	5.981	1.00	23.29	C
ATOM	5945	C	PHE	B	351	63.232	53.841	5.080	1.00	23.34	C
ATOM	5946	O	PHE	B	351	63.149	55.009	5.462	1.00	24.30	O
ATOM	5947	CB	PHE	B	351	63.965	51.972	6.593	1.00	23.12	C
ATOM	5948	CG	PHE	B	351	64.968	52.927	7.217	1.00	24.11	C
ATOM	5949	CD1	PHE	B	351	64.797	53.379	8.516	1.00	24.12	C
ATOM	5950	CD2	PHE	B	351	66.109	53.332	6.495	1.00	24.50	C
ATOM	5951	CE1	PHE	B	351	65.752	54.216	9.131	1.00	24.56	C
ATOM	5952	CE2	PHE	B	351	67.069	54.172	7.076	1.00	25.71	C
ATOM	5953	CZ	PHE	B	351	66.882	54.615	8.423	1.00	25.23	C
ATOM	5954	N	HIS	B	352	63.722	53.537	3.881	1.00	23.40	N
ATOM	5955	CA	HIS	B	352	64.184	54.628	3.000	1.00	23.23	C
ATOM	5956	C	HIS	B	352	63.061	55.441	2.423	1.00	23.07	C
ATOM	5957	O	HIS	B	352	63.148	56.659	2.400	1.00	23.66	O
ATOM	5958	CB	HIS	B	352	65.094	54.097	1.885	1.00	22.67	C
ATOM	5959	CG	HIS	B	352	66.456	53.716	2.389	1.00	23.68	C
ATOM	5960	ND1	HIS	B	352	67.341	54.652	2.885	1.00	22.95	N
ATOM	5961	CD2	HIS	B	352	67.039	52.504	2.571	1.00	22.65	C
ATOM	5962	CE1	HIS	B	352	68.412	54.034	3.356	1.00	23.80	C
ATOM	5963	NE2	HIS	B	352	68.250	52.730	3.184	1.00	23.96	N
ATOM	5964	N	ALA	B	353	61.992	54.795	1.976	1.00	22.48	N
ATOM	5965	CA	ALA	B	353	60.895	55.570	1.424	1.00	23.04	C
ATOM	5966	C	ALA	B	353	60.261	56.470	2.486	1.00	23.06	C
ATOM	5967	O	ALA	B	353	59.918	57.635	2.211	1.00	23.68	O
ATOM	5968	CB	ALA	B	353	59.847	54.633	0.818	1.00	23.12	C
ATOM	5969	N	LEU	B	354	60.104	55.944	3.704	1.00	22.76	N
ATOM	5970	CA	LEU	B	354	59.464	56.703	4.800	1.00	22.11	C
ATOM	5971	C	LEU	B	354	60.336	57.865	5.265	1.00	22.13	C
ATOM	5972	O	LEU	B	354	59.877	59.020	5.361	1.00	22.98	O
ATOM	5973	CB	LEU	B	354	59.136	55.770	6.000	1.00	20.69	C
ATOM	5974	CG	LEU	B	354	58.426	56.402	7.222	1.00	22.01	C
ATOM	5975	CD1	LEU	B	354	57.739	55.298	8.071	1.00	22.02	C
ATOM	5976	CD2	LEU	B	354	59.444	57.192	8.103	1.00	22.04	C
ATOM	5977	N	ASN	B	355	61.592	57.583	5.561	1.00	22.45	N
ATOM	5978	CA	ASN	B	355	62.481	58.667	5.999	1.00	22.52	C
ATOM	5979	C	ASN	B	355	62.683	59.702	4.889	1.00	23.16	C
ATOM	5980	O	ASN	B	355	62.571	60.905	5.141	1.00	23.45	O
ATOM	5981	CB	ASN	B	355	63.822	58.096	6.466	1.00	22.37	C
ATOM	5982	CG	ASN	B	355	63.739	57.541	7.893	1.00	23.78	C
ATOM	5983	OD1	ASN	B	355	63.905	58.296	8.874	1.00	24.71	O
ATOM	5984	ND2	ASN	B	355	63.450	56.233	8.020	1.00	21.28	N
ATOM	5985	N	TYR	B	356	62.949	59.260	3.663	1.00	23.31	N
ATOM	5986	CA	TYR	B	356	63.176	60.246	2.606	1.00	24.32	C
ATOM	5987	C	TYR	B	356	61.946	61.101	2.281	1.00	24.62	C
ATOM	5988	O	TYR	B	356	62.043	62.340	2.190	1.00	24.19	O
ATOM	5989	CB	TYR	B	356	63.679	59.591	1.298	1.00	24.61	C
ATOM	5990	CG	TYR	B	356	63.820	60.640	0.194	1.00	26.46	C
ATOM	5991	CD1	TYR	B	356	64.852	61.597	0.244	1.00	26.70	C
ATOM	5992	CD2	TYR	B	356	62.858	60.758	-0.809	1.00	26.38	C
ATOM	5993	CE1	TYR	B	356	64.908	62.666	-0.685	1.00	27.75	C
ATOM	5994	CE2	TYR	B	356	62.896	61.825	-1.748	1.00	27.94	C
ATOM	5995	CZ	TYR	B	356	63.930	62.773	-1.664	1.00	28.62	C
ATOM	5996	OH	TYR	B	356	63.958	63.855	-2.516	1.00	29.50	O
ATOM	5997	N	SER	B	357	60.785	60.466	2.102	1.00	24.05	N
ATOM	5998	CA	SER	B	357	59.609	61.260	1.769	1.00	24.38	C
ATOM	5999	C	SER	B	357	59.276	62.293	2.845	1.00	25.14	C
ATOM	6000	O	SER	B	357	58.914	63.435	2.506	1.00	25.21	O
ATOM	6001	CB	SER	B	357	58.376	60.376	1.478	1.00	24.30	C
ATOM	6002	OG	SER	B	357	58.061	59.522	2.563	1.00	23.52	O
ATOM	6003	N	MET	B	358	59.414	61.937	4.129	1.00	24.58	N
ATOM	6004	CA	MET	B	358	59.100	62.922	5.162	1.00	24.71	C
ATOM	6005	C	MET	B	358	60.191	63.992	5.234	1.00	24.72	C
ATOM	6006	O	MET	B	358	59.890	65.179	5.414	1.00	25.48	O
ATOM	6007	CB	MET	B	358	58.900	62.287	6.553	1.00	24.29	C
ATOM	6008	CG	MET	B	358	58.449	63.327	7.616	1.00	23.17	C



ATOM	6009	SD	MET	B	358	57.007	64.371	7.087	1.00	25.03	S
ATOM	6010	CE	MET	B	358	55.693	63.091	6.935	1.00	25.43	C
ATOM	6011	N	PHE	B	359	61.452	63.599	5.121	1.00	25.10	N
ATOM	6012	CA	PHE	B	359	62.494	64.644	5.132	1.00	25.91	C
ATOM	6013	C	PHE	B	359	62.265	65.644	3.976	1.00	25.65	C
ATOM	6014	O	PHE	B	359	62.313	66.857	4.160	1.00	25.77	O
ATOM	6015	CB	PHE	B	359	63.904	64.084	4.954	1.00	25.85	C
ATOM	6016	CG	PHE	B	359	64.968	65.177	4.901	1.00	26.80	C
ATOM	6017	CD1	PHE	B	359	65.467	65.738	6.078	1.00	26.88	C
ATOM	6018	CD2	PHE	B	359	65.366	65.729	3.668	1.00	27.63	C
ATOM	6019	CE1	PHE	B	359	66.351	66.857	6.047	1.00	27.29	C
ATOM	6020	CE2	PHE	B	359	66.239	66.832	3.621	1.00	27.01	C
ATOM	6021	CZ	PHE	B	359	66.728	67.396	4.818	1.00	27.31	C
ATOM	6022	N	ASP	B	360	61.988	65.131	2.790	1.00	25.81	N
ATOM	6023	CA	ASP	B	360	61.816	66.020	1.623	1.00	26.19	C
ATOM	6024	C	ASP	B	360	60.643	66.968	1.788	1.00	26.67	C
ATOM	6025	O	ASP	B	360	60.755	68.181	1.532	1.00	26.21	O
ATOM	6026	CB	ASP	B	360	61.633	65.177	0.368	1.00	26.04	C
ATOM	6027	CG	ASP	B	360	61.682	66.013	-0.909	1.00	26.42	C
ATOM	6028	OD1	ASP	B	360	62.680	66.707	-1.108	1.00	26.46	O
ATOM	6029	OD2	ASP	B	360	60.730	65.975	-1.687	1.00	26.10	O
ATOM	6030	N	LEU	B	361	59.501	66.419	2.215	1.00	25.88	N
ATOM	6031	CA	LEU	B	361	58.313	67.223	2.419	1.00	25.49	C
ATOM	6032	C	LEU	B	361	58.550	68.241	3.531	1.00	25.99	C
ATOM	6033	O	LEU	B	361	58.265	69.433	3.375	1.00	26.95	O
ATOM	6034	CB	LEU	B	361	57.104	66.339	2.800	1.00	25.08	C
ATOM	6035	CG	LEU	B	361	55.814	67.095	3.155	1.00	25.72	C
ATOM	6036	CD1	LEU	B	361	55.298	67.881	1.921	1.00	25.23	C
ATOM	6037	CD2	LEU	B	361	54.705	66.100	3.597	1.00	24.94	C
ATOM	6038	N	ALA	B	362	59.087	67.780	4.647	1.00	25.46	N
ATOM	6039	CA	ALA	B	362	59.278	68.670	5.773	1.00	26.32	C
ATOM	6040	C	ALA	B	362	60.275	69.798	5.458	1.00	26.86	C
ATOM	6041	O	ALA	B	362	60.103	70.940	5.896	1.00	26.12	O
ATOM	6042	CB	ALA	B	362	59.755	67.895	6.970	1.00	25.36	C
ATOM	6043	N	TYR	B	363	61.322	69.458	4.734	1.00	27.35	N
ATOM	6044	CA	TYR	B	363	62.319	70.467	4.405	1.00	29.41	C
ATOM	6045	C	TYR	B	363	61.678	71.549	3.518	1.00	29.20	C
ATOM	6046	O	TYR	B	363	61.835	72.749	3.776	1.00	29.52	O
ATOM	6047	CB	TYR	B	363	63.510	69.813	3.711	1.00	30.03	C
ATOM	6048	CG	TYR	B	363	64.586	70.814	3.366	1.00	32.63	C
ATOM	6049	CD1	TYR	B	363	64.528	71.542	2.173	1.00	33.64	C
ATOM	6050	CD2	TYR	B	363	65.631	71.069	4.245	1.00	33.53	C
ATOM	6051	CE1	TYR	B	363	65.487	72.506	1.866	1.00	35.26	C
ATOM	6052	CE2	TYR	B	363	66.601	72.034	3.946	1.00	35.15	C
ATOM	6053	CZ	TYR	B	363	66.517	72.744	2.752	1.00	35.78	C
ATOM	6054	OH	TYR	B	363	67.487	73.677	2.426	1.00	38.20	O
ATOM	6055	N	GLY	B	364	60.927	71.111	2.504	1.00	28.67	N
ATOM	6056	CA	GLY	B	364	60.255	72.051	1.622	1.00	28.27	C
ATOM	6057	C	GLY	B	364	59.220	72.868	2.385	1.00	28.81	C
ATOM	6058	O	GLY	B	364	59.029	74.068	2.133	1.00	28.14	O
ATOM	6059	N	TYR	B	365	58.550	72.219	3.338	1.00	28.03	N
ATOM	6060	CA	TYR	B	365	57.532	72.885	4.137	1.00	27.92	C
ATOM	6061	C	TYR	B	365	58.186	73.903	5.063	1.00	28.15	C
ATOM	6062	O	TYR	B	365	57.649	74.991	5.227	1.00	28.03	O
ATOM	6063	CB	TYR	B	365	56.748	71.829	4.946	1.00	27.86	C
ATOM	6064	CG	TYR	B	365	55.597	72.306	5.801	1.00	27.18	C
ATOM	6065	CD1	TYR	B	365	54.392	72.731	5.236	1.00	27.17	C
ATOM	6066	CD2	TYR	B	365	55.673	72.216	7.196	1.00	27.77	C
ATOM	6067	CE1	TYR	B	365	53.286	73.036	6.031	1.00	25.95	C
ATOM	6068	CE2	TYR	B	365	54.569	72.522	8.006	1.00	27.32	C
ATOM	6069	CZ	TYR	B	365	53.377	72.922	7.405	1.00	27.43	C
ATOM	6070	OH	TYR	B	365	52.269	73.136	8.215	1.00	28.15	O
ATOM	6071	N	ALA	B	366	59.324	73.563	5.674	1.00	28.24	N
ATOM	6072	CA	ALA	B	366	59.989	74.517	6.558	1.00	29.98	C
ATOM	6073	C	ALA	B	366	60.382	75.781	5.748	1.00	31.70	C
ATOM	6074	O	ALA	B	366	60.366	76.898	6.277	1.00	31.88	O
ATOM	6075	CB	ALA	B	366	61.260	73.902	7.184	1.00	29.34	C
ATOM	6076	N	GLN	B	367	60.709	75.587	4.472	1.00	32.58	N
ATOM	6077	CA	GLN	B	367	61.131	76.687	3.611	1.00	34.58	C
ATOM	6078	C	GLN	B	367	59.986	77.438	2.946	1.00	34.56	C
ATOM	6079	O	GLN	B	367	59.963	78.653	2.998	1.00	35.11	O
ATOM	6080	CB	GLN	B	367	62.061	76.175	2.494	1.00	35.71	C
ATOM	6081	CG	GLN	B	367	63.283	75.395	2.925	1.00	39.30	C
ATOM	6082	CD	GLN	B	367	64.230	76.210	3.787	1.00	42.02	C
ATOM	6083	OE1	GLN	B	367	64.533	77.370	3.473	1.00	43.75	O
ATOM	6084	NE2	GLN	B	367	64.714	75.612	4.872	1.00	42.91	N
ATOM	6085	N	ASN	B	368	59.028	76.722	2.347	1.00	34.52	N
ATOM	6086	CA	ASN	B	368	57.934	77.356	1.589	1.00	33.98	C
ATOM	6087	C	ASN	B	368	56.493	77.004	1.988	1.00	33.35	C
ATOM	6088	O	ASN	B	368	55.556	77.248	1.223	1.00	32.09	O



ATOM	6089	CB	ASN	B	368	58.123	77.017	0.096	1.00	35.80	C
ATOM	6090	CG	ASN	B	368	59.522	77.394	-0.416	1.00	37.83	C
ATOM	6091	OD1	ASN	B	368	60.262	76.555	-0.959	1.00	38.99	O
ATOM	6092	ND2	ASN	B	368	59.888	78.650	-0.229	1.00	38.01	N
ATOM	6093	N	GLN	B	369	56.325	76.427	3.175	1.00	32.56	N
ATOM	6094	CA	GLN	B	369	55.009	76.058	3.661	1.00	31.97	C
ATOM	6095	C	GLN	B	369	54.100	75.322	2.676	1.00	30.88	C
ATOM	6096	O	GLN	B	369	54.523	74.306	2.120	1.00	30.06	O
ATOM	6097	CB	GLN	B	369	54.316	77.281	4.266	1.00	33.06	C
ATOM	6098	CG	GLN	B	369	55.119	77.869	5.448	1.00	34.58	C
ATOM	6099	CD	GLN	B	369	56.127	78.938	5.003	1.00	36.03	C
ATOM	6100	OE1	GLN	B	369	55.743	79.899	4.338	1.00	37.20	O
ATOM	6101	NE2	GLN	B	369	57.395	78.783	5.375	1.00	35.26	N
ATOM	6102	N	MET	B	370	52.877	75.802	2.443	1.00	29.80	N
ATOM	6103	CA	MET	B	370	51.959	75.047	1.589	1.00	29.82	C
ATOM	6104	C	MET	B	370	52.428	74.645	0.200	1.00	30.17	C
ATOM	6105	O	MET	B	370	51.989	73.619	-0.334	1.00	30.02	O
ATOM	6106	CB	MET	B	370	50.593	75.748	1.490	1.00	30.13	C
ATOM	6107	CG	MET	B	370	49.866	75.855	2.846	1.00	29.08	C
ATOM	6108	SD	MET	B	370	49.818	74.233	3.694	1.00	30.19	S
ATOM	6109	CE	MET	B	370	48.947	73.269	2.492	1.00	28.01	C
ATOM	6110	N	SER	B	371	53.336	75.424	-0.383	1.00	30.04	N
ATOM	6111	CA	SER	B	371	53.862	75.106	-1.710	1.00	29.67	C
ATOM	6112	C	SER	B	371	54.467	73.698	-1.772	1.00	29.29	C
ATOM	6113	O	SER	B	371	54.288	72.973	-2.759	1.00	29.66	O
ATOM	6114	CB	SER	B	371	54.922	76.149	-2.100	1.00	29.91	C
ATOM	6115	OG	SER	B	371	54.320	77.439	-2.116	1.00	30.88	C
ATOM	6116	N	ALA	B	372	55.191	73.323	-0.729	1.00	28.79	N
ATOM	6117	CA	ALA	B	372	55.836	71.996	-0.650	1.00	29.05	C
ATOM	6118	C	ALA	B	372	54.820	70.865	-0.590	1.00	29.23	C
ATOM	6119	O	ALA	B	372	55.025	69.812	-1.193	1.00	30.09	O
ATOM	6120	CB	ALA	B	372	56.708	71.925	0.567	1.00	27.41	C
ATOM	6121	N	TYR	B	373	53.744	71.063	0.176	1.00	29.69	N
ATOM	6122	CA	TYR	B	373	52.715	70.029	0.277	1.00	29.65	C
ATOM	6123	C	TYR	B	373	52.009	69.911	-1.076	1.00	30.33	C
ATOM	6124	O	TYR	B	373	51.734	68.798	-1.554	1.00	29.78	O
ATOM	6125	CB	TYR	B	373	51.678	70.367	1.354	1.00	29.56	C
ATOM	6126	CG	TYR	B	373	50.579	69.310	1.426	1.00	30.13	C
ATOM	6127	CD1	TYR	B	373	50.843	68.027	1.902	1.00	29.47	C
ATOM	6128	CD2	TYR	B	373	49.309	69.579	0.947	1.00	30.44	C
ATOM	6129	CE1	TYR	B	373	49.848	67.033	1.882	1.00	30.43	C
ATOM	6130	CE2	TYR	B	373	48.317	68.610	0.925	1.00	31.35	C
ATOM	6131	CZ	TYR	B	373	48.602	67.334	1.395	1.00	30.50	C
ATOM	6132	OH	TYR	B	373	47.609	66.396	1.342	1.00	31.03	O
ATOM	6133	N	VAL	B	374	51.709	71.060	-1.703	1.00	30.28	N
ATOM	6134	CA	VAL	B	374	51.048	71.023	-3.007	1.00	30.69	C
ATOM	6135	C	VAL	B	374	51.855	70.203	-4.009	1.00	29.98	C
ATOM	6136	O	VAL	B	374	51.283	69.482	-4.826	1.00	29.77	O
ATOM	6137	CB	VAL	B	374	50.769	72.459	-3.527	1.00	30.80	C
ATOM	6138	CG1	VAL	B	374	50.245	72.429	-4.958	1.00	32.56	C
ATOM	6139	CG2	VAL	B	374	49.739	73.099	-2.623	1.00	31.70	C
ATOM	6140	N	GLU	B	375	53.179	70.270	-3.930	1.00	30.50	N
ATOM	6141	CA	GLU	B	375	54.009	69.483	-4.842	1.00	31.21	C
ATOM	6142	C	GLU	B	375	53.764	67.981	-4.687	1.00	30.13	C
ATOM	6143	O	GLU	B	375	53.700	67.239	-5.678	1.00	28.80	O
ATOM	6144	CB	GLU	B	375	55.489	69.763	-4.604	1.00	34.57	C
ATOM	6145	CG	GLU	B	375	56.007	70.955	-5.413	1.00	39.55	C
ATOM	6146	CD	GLU	B	375	57.456	71.316	-5.090	1.00	42.77	C
ATOM	6147	OE1	GLU	B	375	58.288	70.386	-4.964	1.00	44.49	O
ATOM	6148	OE2	GLU	B	375	57.768	72.538	-4.978	1.00	45.65	O
ATOM	6149	N	LEU	B	376	53.638	67.533	-3.436	1.00	28.74	N
ATOM	6150	CA	LEU	B	376	53.389	66.124	-3.153	1.00	28.13	C
ATOM	6151	C	LEU	B	376	51.968	65.804	-3.607	1.00	28.19	C
ATOM	6152	O	LEU	B	376	51.728	64.810	-4.290	1.00	27.72	O
ATOM	6153	CB	LEU	B	376	53.524	65.864	-1.647	1.00	28.28	C
ATOM	6154	CG	LEU	B	376	52.918	64.542	-1.138	1.00	28.15	C
ATOM	6155	CD1	LEU	B	376	53.617	63.371	-1.832	1.00	26.78	C
ATOM	6156	CD2	LEU	B	376	53.072	64.465	0.399	1.00	27.21	C
ATOM	6157	N	GLN	B	377	51.017	66.668	-3.260	1.00	27.98	N
ATOM	6158	CA	GLN	B	377	49.646	66.404	-3.673	1.00	28.77	C
ATOM	6159	C	GLN	B	377	49.532	66.250	-5.202	1.00	29.45	C
ATOM	6160	O	GLN	B	377	48.813	65.355	-5.715	1.00	29.36	O
ATOM	6161	CB	GLN	B	377	48.716	67.510	-3.191	1.00	29.01	C
ATOM	6162	CG	GLN	B	377	47.279	67.220	-3.541	1.00	30.03	C
ATOM	6163	CD	GLN	B	377	46.333	68.208	-2.913	1.00	31.40	C
ATOM	6164	OE1	GLN	B	377	45.538	67.866	-2.009	1.00	31.50	O
ATOM	6165	NE2	GLN	B	377	46.407	69.451	-3.375	1.00	30.61	N
ATOM	6166	N	GLU	B	378	50.242	67.099	-5.943	1.00	30.07	N
ATOM	6167	CA	GLU	B	378	50.181	66.997	-7.406	1.00	30.57	C
ATOM	6168	C	GLU	B	378	50.768	65.666	-7.880	1.00	30.71	C



ATOM	6169	O	GLU	B	378	50.242	65.053	-8.825	1.00	30.63	O
ATOM	6170	CB	GLU	B	378	50.892	68.198	-8.067	1.00	31.11	C
ATOM	6171	CG	GLU	B	378	50.103	69.526	-7.923	1.00	33.10	C
ATOM	6172	CD	GLU	B	378	48.759	69.484	-8.673	1.00	34.74	C
ATOM	6173	OE1	GLU	B	378	48.795	69.203	-9.886	1.00	37.15	O
ATOM	6174	OE2	GLU	B	378	47.678	69.709	-8.080	1.00	34.86	O
ATOM	6175	N	ARG	B	379	51.843	65.197	-7.245	1.00	30.42	N
ATOM	6176	CA	ARG	B	379	52.393	63.895	-7.658	1.00	31.19	C
ATOM	6177	C	ARG	B	379	51.365	62.783	-7.392	1.00	30.43	C
ATOM	6178	O	ARG	B	379	51.240	61.823	-8.163	1.00	29.61	O
ATOM	6179	CB	ARG	B	379	53.665	63.557	-6.889	1.00	32.77	C
ATOM	6180	CG	ARG	B	379	54.933	64.205	-7.411	1.00	35.83	C
ATOM	6181	CD	ARG	B	379	56.096	63.767	-6.514	1.00	39.13	C
ATOM	6182	NE	ARG	B	379	56.830	64.926	-6.036	1.00	42.86	N
ATOM	6183	CZ	ARG	B	379	57.197	65.151	-4.772	1.00	44.47	C
ATOM	6184	NH1	ARG	B	379	56.915	64.288	-3.771	1.00	44.20	N
ATOM	6185	NH2	ARG	B	379	57.850	66.286	-4.505	1.00	46.34	N
ATOM	6186	N	GLU	B	380	50.645	62.900	-6.276	1.00	29.45	N
ATOM	6187	CA	GLU	B	380	49.639	61.910	-5.939	1.00	29.04	C
ATOM	6188	C	GLU	B	380	48.525	61.935	-6.985	1.00	29.52	C
ATOM	6189	O	GLU	B	380	48.066	60.879	-7.433	1.00	29.65	O
ATOM	6190	CB	GLU	B	380	49.057	62.194	-4.555	1.00	28.05	C
ATOM	6191	CG	GLU	B	380	49.987	61.796	-3.415	1.00	26.84	C
ATOM	6192	CD	GLU	B	380	49.314	61.996	-2.062	1.00	27.28	C
ATOM	6193	OE1	GLU	B	380	49.335	63.157	-1.598	1.00	28.00	O
ATOM	6194	OE2	GLU	B	380	48.766	61.023	-1.485	1.00	25.21	O
ATOM	6195	N	PHE	B	381	48.075	63.130	-7.375	1.00	29.53	N
ATOM	6196	CA	PHE	B	381	47.035	63.184	-8.407	1.00	30.67	C
ATOM	6197	C	PHE	B	381	47.543	62.496	-9.689	1.00	30.49	C
ATOM	6198	O	PHE	B	381	46.809	61.744	-10.323	1.00	29.73	O
ATOM	6199	CB	PHE	B	381	46.648	64.625	-8.738	1.00	31.52	C
ATOM	6200	CG	PHE	B	381	45.901	65.345	-7.628	1.00	32.60	C
ATOM	6201	CD1	PHE	B	381	45.000	64.667	-6.805	1.00	33.08	C
ATOM	6202	CD2	PHE	B	381	46.075	66.715	-7.438	1.00	33.37	C
ATOM	6203	CE1	PHE	B	381	44.285	65.334	-5.807	1.00	33.10	C
ATOM	6204	CE2	PHE	B	381	45.358	67.400	-6.438	1.00	33.68	C
ATOM	6205	CZ	PHE	B	381	44.466	66.706	-5.622	1.00	33.76	C
ATOM	6206	N	ALA	B	382	48.805	62.738	-10.047	1.00	31.08	N
ATOM	6207	CA	ALA	B	382	49.397	62.143	-11.250	1.00	31.34	C
ATOM	6208	C	ALA	B	382	49.505	60.624	-11.153	1.00	31.81	C
ATOM	6209	O	ALA	B	382	49.356	59.923	-12.156	1.00	31.88	O
ATOM	6210	CB	ALA	B	382	50.776	62.740	-11.489	1.00	31.94	C
ATOM	6211	N	ALA	B	383	49.762	60.113	-9.946	1.00	30.89	N
ATOM	6212	CA	ALA	B	383	49.887	58.681	-9.734	1.00	30.60	C
ATOM	6213	C	ALA	B	383	48.560	57.928	-9.887	1.00	30.96	C
ATOM	6214	O	ALA	B	383	48.552	56.684	-10.016	1.00	29.91	O
ATOM	6215	CB	ALA	B	383	50.489	58.407	-8.335	1.00	30.62	C
ATOM	6216	N	GLU	B	384	47.444	58.664	-9.847	1.00	31.57	N
ATOM	6217	CA	GLU	B	384	46.141	58.029	-9.980	1.00	33.26	C
ATOM	6218	C	GLU	B	384	46.077	57.287	-11.314	1.00	34.36	C
ATOM	6219	O	GLU	B	384	45.456	56.238	-11.414	1.00	34.26	O
ATOM	6220	CB	GLU	B	384	45.009	59.056	-9.852	1.00	33.82	C
ATOM	6221	CG	GLU	B	384	44.804	59.528	-8.393	1.00	34.84	C
ATOM	6222	CD	GLU	B	384	43.814	60.690	-8.249	1.00	36.29	C
ATOM	6223	OE1	GLU	B	384	43.025	60.954	-9.174	1.00	37.00	O
ATOM	6224	OE2	GLU	B	384	43.815	61.351	-7.196	1.00	37.18	O
ATOM	6225	N	GLU	B	385	46.768	57.804	-12.325	1.00	35.65	N
ATOM	6226	CA	GLU	B	385	46.777	57.146	-13.628	1.00	37.35	C
ATOM	6227	C	GLU	B	385	47.373	55.754	-13.527	1.00	36.61	C
ATOM	6228	O	GLU	B	385	47.077	54.908	-14.359	1.00	36.58	O
ATOM	6229	CB	GLU	B	385	47.648	57.900	-14.628	1.00	39.93	C
ATOM	6230	CG	GLU	B	385	47.488	59.378	-14.630	1.00	44.37	C
ATOM	6231	CD	GLU	B	385	48.563	60.018	-15.497	1.00	47.08	C
ATOM	6232	OE1	GLU	B	385	48.645	59.645	-16.704	1.00	48.01	O
ATOM	6233	OE2	GLU	B	385	49.332	60.872	-14.964	1.00	48.30	O
ATOM	6234	N	ARG	B	386	48.262	55.539	-12.560	1.00	35.60	N
ATOM	6235	CA	ARG	B	386	48.903	54.244	-12.389	1.00	34.81	C
ATOM	6236	C	ARG	B	386	48.135	53.357	-11.435	1.00	33.76	C
ATOM	6237	O	ARG	B	386	48.570	52.253	-11.158	1.00	33.88	O
ATOM	6238	CB	ARG	B	386	50.345	54.421	-11.890	1.00	35.97	C
ATOM	6239	CG	ARG	B	386	51.262	55.085	-12.899	1.00	37.89	C
ATOM	6240	CD	ARG	B	386	52.724	55.232	-12.432	1.00	39.91	C
ATOM	6241	NE	ARG	B	386	52.844	56.144	-11.289	1.00	42.77	N
ATOM	6242	CZ	ARG	B	386	53.928	56.236	-10.507	1.00	43.68	C
ATOM	6243	NH1	ARG	B	386	54.992	55.465	-10.764	1.00	43.91	N
ATOM	6244	NH2	ARG	B	386	53.938	57.060	-9.453	1.00	42.40	N
ATOM	6245	N	GLY	B	387	46.996	53.847	-10.937	1.00	32.66	N
ATOM	6246	CA	GLY	B	387	46.156	53.083	-10.017	1.00	31.49	C
ATOM	6247	C	GLY	B	387	46.200	53.472	-8.536	1.00	30.74	C
ATOM	6248	O	GLY	B	387	45.558	52.819	-7.703	1.00	30.99	O



ATOM	6249	N	TYR	B	388	46.940	54.534	-8.209	1.00	29.71	N
ATOM	6250	CA	TYR	B	388	47.069	55.015	-6.834	1.00	28.64	C
ATOM	6251	C	TYR	B	388	45.704	55.496	-6.382	1.00	28.32	C
ATOM	6252	O	TYR	B	388	45.040	56.230	-7.107	1.00	28.40	O
ATOM	6253	CB	TYR	B	388	48.047	56.169	-6.800	1.00	27.38	C
ATOM	6254	CG	TYR	B	388	48.329	56.733	-5.428	1.00	27.29	C
ATOM	6255	CD1	TYR	B	388	49.002	55.971	-4.463	1.00	26.74	C
ATOM	6256	CD2	TYR	B	388	47.975	58.058	-5.112	1.00	26.77	C
ATOM	6257	CE1	TYR	B	388	49.326	56.520	-3.220	1.00	26.31	C
ATOM	6258	CE2	TYR	B	388	48.291	58.606	-3.884	1.00	27.06	C
ATOM	6259	CZ	TYR	B	388	48.975	57.827	-2.944	1.00	26.85	C
ATOM	6260	OH	TYR	B	388	49.344	58.392	-1.744	1.00	26.85	O
ATOM	6261	N	THR	B	389	45.288	55.121	-5.183	1.00	28.02	N
ATOM	6262	CA	THR	B	389	43.953	55.523	-4.697	1.00	27.71	C
ATOM	6263	C	THR	B	389	43.947	56.343	-3.391	1.00	27.74	C
ATOM	6264	O	THR	B	389	42.911	56.890	-3.023	1.00	27.55	O
ATOM	6265	CB	THR	B	389	43.083	54.288	-4.450	1.00	28.39	C
ATOM	6266	OG1	THR	B	389	43.768	53.402	-3.534	1.00	27.88	O
ATOM	6267	CG2	THR	B	389	42.795	53.536	-5.802	1.00	28.80	C
ATOM	6268	N	ALA	B	390	45.105	56.486	-2.732	1.00	27.81	N
ATOM	6269	CA	ALA	B	390	45.171	57.178	-1.430	1.00	27.51	C
ATOM	6270	C	ALA	B	390	44.823	58.683	-1.397	1.00	28.58	C
ATOM	6271	O	ALA	B	390	44.651	59.282	-0.284	1.00	26.92	O
ATOM	6272	CB	ALA	B	390	46.552	56.905	-0.754	1.00	27.19	C
ATOM	6273	N	THR	B	391	44.712	59.303	-2.584	1.00	28.48	N
ATOM	6274	CA	THR	B	391	44.299	60.697	-2.636	1.00	29.62	C
ATOM	6275	C	THR	B	391	42.857	60.718	-2.099	1.00	30.23	C
ATOM	6276	O	THR	B	391	42.402	61.721	-1.564	1.00	31.80	O
ATOM	6277	CB	THR	B	391	44.355	61.268	-4.080	1.00	30.30	C
ATOM	6278	OG1	THR	B	391	43.710	60.361	-4.992	1.00	33.26	O
ATOM	6279	CG2	THR	B	391	45.763	61.415	-4.516	1.00	30.89	C
ATOM	6280	N	LYS	B	392	42.121	59.629	-2.240	1.00	29.77	N
ATOM	6281	CA	LYS	B	392	40.779	59.570	-1.654	1.00	30.39	C
ATOM	6282	C	LYS	B	392	41.046	58.915	-0.281	1.00	29.32	C
ATOM	6283	O	LYS	B	392	40.837	57.723	-0.070	1.00	28.06	O
ATOM	6284	CB	LYS	B	392	39.875	58.727	-2.546	1.00	32.00	C
ATOM	6285	CG	LYS	B	392	39.639	59.449	-3.908	1.00	35.11	C
ATOM	6286	CD	LYS	B	392	38.684	58.676	-4.754	1.00	38.94	C
ATOM	6287	CE	LYS	B	392	38.416	59.370	-6.095	1.00	41.20	C
ATOM	6288	NZ	LYS	B	392	37.320	58.637	-6.834	1.00	43.43	N
ATOM	6289	N	HIS	B	393	41.544	59.736	0.633	1.00	28.22	N
ATOM	6290	CA	HIS	B	393	41.980	59.268	1.938	1.00	27.90	C
ATOM	6291	C	HIS	B	393	40.919	58.585	2.815	1.00	26.66	C
ATOM	6292	O	HIS	B	393	41.245	57.593	3.462	1.00	25.65	O
ATOM	6293	CB	HIS	B	393	42.626	60.431	2.687	1.00	29.58	C
ATOM	6294	CG	HIS	B	393	41.676	61.561	2.958	1.00	31.60	C
ATOM	6295	ND1	HIS	B	393	40.835	62.081	1.986	1.00	32.87	N
ATOM	6296	CD2	HIS	B	393	41.398	62.241	4.097	1.00	31.92	C
ATOM	6297	CE1	HIS	B	393	40.084	63.032	2.519	1.00	33.15	C
ATOM	6298	NE2	HIS	B	393	40.407	63.150	3.801	1.00	33.04	N
ATOM	6299	N	GLN	B	394	39.683	59.110	2.838	1.00	25.68	N
ATOM	6300	CA	GLN	B	394	38.602	58.528	3.666	1.00	26.40	C
ATOM	6301	C	GLN	B	394	38.309	57.115	3.171	1.00	26.52	C
ATOM	6302	O	GLN	B	394	38.252	56.138	3.947	1.00	25.90	O
ATOM	6303	CB	GLN	B	394	37.304	59.369	3.586	1.00	26.97	C
ATOM	6304	CG	GLN	B	394	37.456	60.862	3.966	1.00	28.03	C
ATOM	6305	CD	GLN	B	394	37.905	61.156	5.412	1.00	31.05	C
ATOM	6306	OE1	GLN	B	394	38.617	60.387	6.055	1.00	29.83	O
ATOM	6307	NE2	GLN	B	394	37.497	62.340	5.912	1.00	32.90	N
ATOM	6308	N	ARG	B	395	38.142	57.022	1.854	1.00	26.15	N
ATOM	6309	CA	ARG	B	395	37.878	55.755	1.211	1.00	26.14	C
ATOM	6310	C	ARG	B	395	38.997	54.759	1.534	1.00	24.97	C
ATOM	6311	O	ARG	B	395	38.734	53.603	1.896	1.00	24.26	O
ATOM	6312	CB	ARG	B	395	37.819	55.968	-0.314	1.00	28.08	C
ATOM	6313	CG	ARG	B	395	37.708	54.674	-1.118	1.00	32.00	C
ATOM	6314	CD	ARG	B	395	37.904	54.954	-2.617	1.00	34.44	C
ATOM	6315	NE	ARG	B	395	37.703	53.731	-3.380	1.00	38.07	N
ATOM	6316	CZ	ARG	B	395	38.570	52.713	-3.411	1.00	40.14	C
ATOM	6317	NH1	ARG	B	395	39.720	52.776	-2.714	1.00	40.20	N
ATOM	6318	NH2	ARG	B	395	38.280	51.621	-4.121	1.00	40.33	N
ATOM	6319	N	GLU	B	396	40.233	55.233	1.407	1.00	23.87	N
ATOM	6320	CA	GLU	B	396	41.445	54.408	1.590	1.00	23.65	C
ATOM	6321	C	GLU	B	396	41.535	53.723	2.957	1.00	22.49	C
ATOM	6322	O	GLU	B	396	42.052	52.607	3.061	1.00	21.53	O
ATOM	6323	CB	GLU	B	396	42.705	55.260	1.403	1.00	23.97	C
ATOM	6324	CG	GLU	B	396	44.057	54.465	1.345	1.00	23.23	C
ATOM	6325	CD	GLU	B	396	44.281	53.762	-0.007	1.00	23.75	C
ATOM	6326	OE1	GLU	B	396	43.569	54.085	-0.977	1.00	23.68	O
ATOM	6327	OE2	GLU	B	396	45.176	52.886	-0.092	1.00	24.68	O
ATOM	6328	N	VAL	B	397	41.054	54.392	4.000	1.00	21.49	N



ATOM	6329	CA	VAL	B	397	41.128	53.781	5.326	1.00	21.66	C
ATOM	6330	C	VAL	B	397	39.819	53.120	5.741	1.00	22.03	C
ATOM	6331	O	VAL	B	397	39.650	52.738	6.896	1.00	22.16	O
ATOM	6332	CB	VAL	B	397	41.585	54.798	6.419	1.00	21.66	C
ATOM	6333	CG1	VAL	B	397	43.070	55.206	6.174	1.00	20.42	C
ATOM	6334	CG2	VAL	B	397	40.672	56.019	6.400	1.00	21.41	C
ATOM	6335	N	GLY	B	398	38.896	52.975	4.800	1.00	22.00	N
ATOM	6336	CA	GLY	B	398	37.658	52.288	5.112	1.00	22.52	C
ATOM	6337	C	GLY	B	398	36.408	53.065	5.496	1.00	23.23	C
ATOM	6338	O	GLY	B	398	35.453	52.456	5.978	1.00	21.95	O
ATOM	6339	N	ALA	B	399	36.370	54.380	5.278	1.00	23.52	N
ATOM	6340	CA	ALA	B	399	35.164	55.125	5.664	1.00	23.87	C
ATOM	6341	C	ALA	B	399	33.929	54.582	4.928	1.00	24.57	C
ATOM	6342	O	ALA	B	399	32.844	54.510	5.511	1.00	25.38	O
ATOM	6343	CB	ALA	B	399	35.340	56.654	5.386	1.00	23.15	C
ATOM	6344	N	GLY	B	400	34.077	54.183	3.663	1.00	25.23	N
ATOM	6345	CA	GLY	B	400	32.915	53.667	2.946	1.00	25.42	C
ATOM	6346	C	GLY	B	400	32.504	52.295	3.466	1.00	25.29	C
ATOM	6347	O	GLY	B	400	31.323	51.958	3.465	1.00	23.66	O
ATOM	6348	N	TYR	B	401	33.497	51.495	3.870	1.00	24.00	N
ATOM	6349	CA	TYR	B	401	33.220	50.174	4.407	1.00	24.29	C
ATOM	6350	C	TYR	B	401	32.462	50.320	5.753	1.00	24.34	C
ATOM	6351	O	TYR	B	401	31.476	49.615	5.990	1.00	24.51	O
ATOM	6352	CB	TYR	B	401	34.531	49.396	4.613	1.00	23.32	C
ATOM	6353	CG	TYR	B	401	34.348	48.001	5.162	1.00	24.00	C
ATOM	6354	CD1	TYR	B	401	33.913	46.947	4.346	1.00	24.20	C
ATOM	6355	CD2	TYR	B	401	34.597	47.721	6.515	1.00	24.00	C
ATOM	6356	CE1	TYR	B	401	33.726	45.639	4.870	1.00	23.48	C
ATOM	6357	CE2	TYR	B	401	34.422	46.429	7.028	1.00	23.82	C
ATOM	6358	CZ	TYR	B	401	33.985	45.403	6.196	1.00	23.50	C
ATOM	6359	OH	TYR	B	401	33.806	44.151	6.735	1.00	24.26	O
ATOM	6360	N	PHE	B	402	32.912	51.226	6.632	1.00	24.29	N
ATOM	6361	CA	PHE	B	402	32.219	51.407	7.908	1.00	24.35	C
ATOM	6362	C	PHE	B	402	30.867	52.080	7.710	1.00	25.52	C
ATOM	6363	O	PHE	B	402	29.910	51.814	8.463	1.00	25.67	O
ATOM	6364	CB	PHE	B	402	33.124	52.149	8.909	1.00	23.93	C
ATOM	6365	CG	PHE	B	402	34.114	51.222	9.578	1.00	23.27	C
ATOM	6366	CD1	PHE	B	402	33.741	50.482	10.695	1.00	22.70	C
ATOM	6367	CD2	PHE	B	402	35.350	50.976	9.011	1.00	22.84	C
ATOM	6368	CE1	PHE	B	402	34.573	49.499	11.227	1.00	22.99	C
ATOM	6369	CE2	PHE	B	402	36.219	49.974	9.548	1.00	23.41	C
ATOM	6370	CZ	PHE	B	402	35.823	49.236	10.655	1.00	22.18	C
ATOM	6371	N	ASP	B	403	30.758	52.936	6.688	1.00	26.60	N
ATOM	6372	CA	ASP	B	403	29.457	53.540	6.401	1.00	27.66	C
ATOM	6373	C	ASP	B	403	28.516	52.385	5.982	1.00	26.60	C
ATOM	6374	O	ASP	B	403	27.320	52.377	6.313	1.00	25.86	O
ATOM	6375	CB	ASP	B	403	29.557	54.567	5.254	1.00	29.81	C
ATOM	6376	CG	ASP	B	403	30.115	55.913	5.709	1.00	32.93	C
ATOM	6377	OD1	ASP	B	403	30.289	56.158	6.934	1.00	34.13	O
ATOM	6378	OD2	ASP	B	403	30.385	56.752	4.829	1.00	35.19	O
ATOM	6379	N	ARG	B	404	29.050	51.402	5.266	1.00	26.23	N
ATOM	6380	CA	ARG	B	404	28.197	50.300	4.860	1.00	26.77	C
ATOM	6381	C	ARG	B	404	27.757	49.480	6.076	1.00	26.30	C
ATOM	6382	O	ARG	B	404	26.604	49.035	6.173	1.00	25.75	O
ATOM	6383	CB	ARG	B	404	28.902	49.423	3.832	1.00	28.46	C
ATOM	6384	CG	ARG	B	404	28.029	48.260	3.414	1.00	31.28	C
ATOM	6385	CD	ARG	B	404	28.595	47.462	2.229	1.00	33.95	C
ATOM	6386	NE	ARG	B	404	27.559	46.529	1.836	1.00	36.76	N
ATOM	6387	CZ	ARG	B	404	26.878	46.590	0.701	1.00	37.55	C
ATOM	6388	NH1	ARG	B	404	27.132	47.539	-0.195	1.00	37.50	N
ATOM	6389	NH2	ARG	B	404	25.903	45.717	0.497	1.00	38.43	N
ATOM	6390	N	ILE	B	405	28.660	49.277	7.034	1.00	25.60	N
ATOM	6391	CA	ILE	B	405	28.256	48.558	8.239	1.00	24.98	C
ATOM	6392	C	ILE	B	405	27.134	49.366	8.941	1.00	25.65	C
ATOM	6393	O	ILE	B	405	26.079	48.819	9.328	1.00	25.69	O
ATOM	6394	CB	ILE	B	405	29.447	48.392	9.202	1.00	24.70	C
ATOM	6395	CG1	ILE	B	405	30.455	47.393	8.582	1.00	24.90	C
ATOM	6396	CG2	ILE	B	405	28.946	47.947	10.580	1.00	23.92	C
ATOM	6397	CD1	ILE	B	405	31.763	47.237	9.366	1.00	23.48	C
ATOM	6398	N	ALA	B	406	27.340	50.673	9.088	1.00	25.50	N
ATOM	6399	CA	ALA	B	406	26.333	51.481	9.763	1.00	26.08	C
ATOM	6400	C	ALA	B	406	24.974	51.360	9.063	1.00	27.08	C
ATOM	6401	O	ALA	B	406	23.938	51.261	9.722	1.00	26.78	O
ATOM	6402	CB	ALA	B	406	26.765	52.928	9.800	1.00	25.49	C
ATOM	6403	N	THR	B	407	24.998	51.370	7.730	1.00	27.26	N
ATOM	6404	CA	THR	B	407	23.789	51.269	6.914	1.00	28.84	C
ATOM	6405	C	THR	B	407	23.155	49.894	7.069	1.00	28.83	C
ATOM	6406	O	THR	B	407	21.930	49.767	7.141	1.00	29.11	O
ATOM	6407	CB	THR	B	407	24.132	51.510	5.428	1.00	29.05	C
ATOM	6408	OG1	THR	B	407	24.657	52.840	5.294	1.00	30.94	O



ATOM	6409	CG2	THR	B	407	22.890	51.368	4.540	1.00	30.68	C	
ATOM	6410	N	THR	B	408	23.993	48.864	7.105	1.00	28.55	N	
ATOM	6411	CA	THR	B	408	23.512	47.495	7.275	1.00	28.94	C	
ATOM	6412	C	THR	B	408	22.775	47.371	8.597	1.00	30.20	C	
ATOM	6413	O	THR	B	408	21.696	46.787	8.665	1.00	29.92	O	
ATOM	6414	CB	THR	B	408	24.680	46.509	7.249	1.00	28.11	C	
ATOM	6415	OG1	THR	B	408	25.319	46.619	5.978	1.00	27.32	O	
ATOM	6416	CG2	THR	B	408	24.212	45.073	7.497	1.00	26.28	C	
ATOM	6417	N	VAL	B	409	23.360	47.934	9.653	1.00	31.25	N	
ATOM	6418	CA	VAL	B	409	22.743	47.890	10.975	1.00	32.48	C	
ATOM	6419	C	VAL	B	409	21.480	48.771	11.070	1.00	34.50	C	
ATOM	6420	O	VAL	B	409	20.586	48.458	11.841	1.00	35.11	O	
ATOM	6421	CB	VAL	B	409	23.770	48.302	12.071	1.00	32.36	C	
ATOM	6422	CG1	VAL	B	409	23.080	48.521	13.391	1.00	31.98	C	
ATOM	6423	CG2	VAL	B	409	24.806	47.202	12.217	1.00	30.69	C	
ATOM	6424	N	ASP	B	410	21.401	49.846	10.287	1.00	36.22	N	
ATOM	6425	CA	ASP	B	410	20.249	50.761	10.292	1.00	39.18	C	
ATOM	6426	C	ASP	B	410	19.077	50.176	9.502	1.00	41.04	C	
ATOM	6427	O	ASP	B	410	19.135	50.089	8.285	1.00	41.42	O	
ATOM	6428	CB	ASP	B	410	20.670	52.101	9.678	1.00	39.91	C	
ATOM	6429	CG	ASP	B	410	19.520	53.122	9.582	1.00	41.81	C	
ATOM	6430	OD1	ASP	B	410	18.426	52.904	10.156	1.00	41.90	O	
ATOM	6431	OD2	ASP	B	410	19.723	54.171	8.926	1.00	42.43	O	
ATOM	6432	N	PRO	B	411	17.991	49.774	10.186	1.00	43.19	N	
ATOM	6433	CA	PRO	B	411	16.852	49.206	9.449	1.00	44.95	C	
ATOM	6434	C	PRO	B	411	16.100	50.207	8.536	1.00	46.69	C	
ATOM	6435	O	PRO	B	411	15.439	49.805	7.578	1.00	47.22	O	
ATOM	6436	CB	PRO	B	411	15.980	48.607	10.565	1.00	44.46	C	
ATOM	6437	CG	PRO	B	411	16.256	49.492	11.742	1.00	43.92	C	
ATOM	6438	CD	PRO	B	411	17.747	49.774	11.646	1.00	43.18	C	
ATOM	6439	N	ASN	B	412	16.224	51.501	8.819	1.00	48.38	N	
ATOM	6440	CA	ASN	B	412	15.575	52.540	8.020	1.00	50.51	C	
ATOM	6441	C	ASN	B	412	16.417	52.925	6.801	1.00	51.83	C	
ATOM	6442	O	ASN	B	412	16.090	53.888	6.101	1.00	51.71	O	
ATOM	6443	CB	ASN	B	412	15.366	53.811	8.851	1.00	50.63	C	
ATOM	6444	CG	ASN	B	412	14.479	53.589	10.056	1.00	51.58	C	
ATOM	6445	OD1	ASN	B	412	14.385	54.458	10.939	1.00	51.37	O	
ATOM	6446	ND2	ASN	B	412	13.813	52.429	10.104	1.00	51.17	N	
ATOM	6447	N	SER	B	413	17.521	52.212	6.579	1.00	53.10	N	
ATOM	6448	CA	SER	B	413	18.389	52.506	5.441	1.00	54.40	C	
ATOM	6449	C	SER	B	413	18.735	51.214	4.734	1.00	55.62	C	
ATOM	6450	O	SER	B	413	18.956	50.181	5.364	1.00	56.13	O	
ATOM	6451	CB	SER	B	413	19.684	53.194	5.887	1.00	53.61	C	
ATOM	6452	OG	SER	B	413	19.425	54.428	6.512	1.00	52.55	O	
ATOM	6453	N	SER	B	414	18.788	51.270	3.417	1.00	56.86	N	
ATOM	6454	CA	SER	B	414	19.109	50.084	2.657	1.00	58.17	C	
ATOM	6455	C	SER	B	414	20.481	50.190	2.039	1.00	58.69	C	
ATOM	6456	O	SER	B	414	20.958	51.268	1.703	1.00	58.20	O	
ATOM	6457	CB	SER	B	414	18.052	49.852	1.584	1.00	58.64	C	
ATOM	6458	OG	SER	B	414	17.836	51.037	0.847	1.00	58.63	O	
ATOM	6459	N	THR	B	415	21.127	49.048	1.911	1.00	59.87	N	
ATOM	6460	CA	THR	B	415	22.454	49.010	1.331	1.00	61.31	C	
ATOM	6461	C	THR	B	415	22.310	48.771	-0.168	1.00	61.91	C	
ATOM	6462	O	THR	B	415	21.291	48.254	-0.623	1.00	61.79	O	
ATOM	6463	CB	THR	B	415	23.272	47.876	1.957	1.00	61.27	C	
ATOM	6464	OG1	THR	B	415	22.667	46.620	1.624	1.00	61.55	O	
ATOM	6465	CG2	THR	B	415	23.294	48.025	3.483	1.00	61.16	C	
ATOM	6466	N	THR	B	416	23.317	49.168	-0.929	1.00	62.74	N	
ATOM	6467	CA	THR	B	416	23.291	48.960	-2.368	1.00	63.58	C	
ATOM	6468	C	THR	B	416	23.875	47.582	-2.647	1.00	63.68	C	
ATOM	6469	O	THR	B	416	24.946	47.241	-2.145	1.00	63.55	O	
ATOM	6470	CB	THR	B	416	24.128	50.015	-3.094	1.00	63.95	C	
ATOM	6471	OG1	THR	B	416	25.501	49.872	-2.718	1.00	64.52	O	
ATOM	6472	CG2	THR	B	416	23.649	51.419	-2.720	1.00	64.32	C	
ATOM	6473	N	ALA	B	417	23.169	46.788	-3.445	1.00	63.79	N	
ATOM	6474	CA	ALA	B	417	23.619	45.439	-3.773	1.00	63.77	C	
ATOM	6475	C	ALA	B	417	24.908	45.470	-4.593	1.00	63.41	C	
ATOM	6476	O	ALA	B	417	25.144	46.412	-5.349	1.00	63.37	O	
ATOM	6477	CB	ALA	B	417	22.524	44.692	-4.538	1.00	63.89	C	
ATOM	6478	N	LEU	B	418	25.737	44.438	-4.430	1.00	62.44	N	
ATOM	6479	CA	LEU	B	418	27.008	44.324	-5.156	1.00	61.60	C	
ATOM	6480	C	LEU	B	418	26.808	43.541	-6.462	1.00	61.51	C	
ATOM	6481	O	LEU	B	418	27.547	43.797	-7.445	1.00	61.42	O	
ATOM	6482	CB	LEU	B	418	28.064	43.621	-4.286	1.00	60.55	C	
ATOM	6483	CG	LEU	B	418	28.336	44.227	-2.904	1.00	59.66	C	
ATOM	6484	CD1	LEU	B	418	29.509	43.516	-2.257	1.00	59.08	C	
ATOM	6485	CD2	LEU	B	418	28.622	45.705	-3.038	1.00	58.80	C	
TER	6486		LEU	B	418							
HETATM	6487	MG		MG	A	451	39.267	63.072	14.495	1.00	31.02	MG
HETATM	6488	MG		MG	B	452	68.622	41.142	11.831	1.00	31.55	MG







HETATM	6569	O	HOH	581	62.261	48.704	26.464	1.00	23.56	O
HETATM	6570	O	HOH	582	70.610	54.897	27.044	1.00	25.90	O
HETATM	6571	O	HOH	583	43.211	57.180	27.073	1.00	23.41	O
HETATM	6572	O	HOH	584	53.476	26.574	22.725	1.00	24.53	O
HETATM	6573	O	HOH	585	59.634	56.578	-3.024	1.00	26.30	O
HETATM	6574	O	HOH	586	47.268	35.039	3.772	1.00	23.48	O
HETATM	6575	O	HOH	587	55.915	45.567	16.593	1.00	21.09	O
HETATM	6576	O	HOH	588	64.614	55.199	21.398	1.00	23.18	O
HETATM	6577	O	HOH	589	51.032	57.055	28.484	1.00	22.02	O
HETATM	6578	O	HOH	590	52.784	57.733	35.215	1.00	23.57	O
HETATM	6579	O	HOH	591	72.291	58.638	10.422	1.00	27.25	O
HETATM	6580	O	HOH	592	57.098	59.370	5.393	1.00	24.13	O
HETATM	6581	O	HOH	593	64.687	36.305	24.483	1.00	24.29	O
HETATM	6582	O	HOH	594	58.067	61.826	-2.005	1.00	34.02	O
HETATM	6583	O	HOH	595	70.765	40.181	11.718	1.00	25.97	O
HETATM	6584	O	HOH	596	69.706	40.103	15.189	1.00	23.27	O
HETATM	6585	O	HOH	597	46.580	52.552	2.268	1.00	23.09	O
HETATM	6586	O	HOH	598	56.631	43.828	-0.948	1.00	23.15	O
HETATM	6587	O	HOH	599	34.010	67.360	23.984	1.00	28.05	O
HETATM	6588	O	HOH	600	41.956	46.357	9.406	1.00	23.68	O
HETATM	6589	O	HOH	601	76.929	41.465	24.823	1.00	27.51	O
HETATM	6590	O	HOH	602	51.178	59.791	38.102	1.00	24.29	O
HETATM	6591	O	HOH	603	22.701	72.419	24.009	1.00	22.75	O
HETATM	6592	O	HOH	604	44.675	49.146	5.159	1.00	25.91	O
HETATM	6593	O	HOH	605	49.110	28.003	17.306	1.00	24.30	O
HETATM	6594	O	HOH	606	52.441	29.728	7.278	1.00	24.03	O
HETATM	6595	O	HOH	607	61.042	69.564	24.816	1.00	23.22	O
HETATM	6596	O	HOH	608	56.644	58.052	29.723	1.00	25.25	O
HETATM	6597	O	HOH	609	40.722	30.197	17.206	1.00	22.54	O
HETATM	6598	O	HOH	610	67.912	48.294	13.017	1.00	25.75	O
HETATM	6599	O	HOH	611	47.079	27.411	19.051	1.00	26.12	O
HETATM	6600	O	HOH	612	48.506	23.674	17.032	1.00	23.44	O
HETATM	6601	O	HOH	613	39.182	58.945	15.060	1.00	23.34	O
HETATM	6602	O	HOH	614	41.010	54.939	-1.661	1.00	28.60	O
HETATM	6603	O	HOH	615	81.723	52.200	-11.731	1.00	31.96	O
HETATM	6604	O	HOH	616	34.065	73.446	12.350	1.00	26.46	O
HETATM	6605	O	HOH	617	45.648	25.002	18.762	1.00	27.17	O
HETATM	6606	O	HOH	618	57.113	65.975	41.466	1.00	30.57	O
HETATM	6607	O	HOH	619	45.994	25.331	11.657	1.00	29.25	O
HETATM	6608	O	HOH	620	44.396	82.345	25.756	1.00	31.58	O
HETATM	6609	O	HOH	621	39.948	45.548	17.586	1.00	24.94	O
HETATM	6610	O	HOH	622	65.200	27.607	24.330	1.00	25.98	O
HETATM	6611	O	HOH	623	35.885	54.737	25.444	1.00	23.75	O
HETATM	6612	O	HOH	624	52.295	46.846	14.193	1.00	29.51	O
HETATM	6613	O	HOH	625	76.917	38.319	16.139	1.00	28.06	O
HETATM	6614	O	HOH	626	37.604	59.580	0.129	1.00	32.59	O
HETATM	6615	O	HOH	627	65.741	42.908	7.600	1.00	26.27	O
HETATM	6616	O	HOH	628	54.902	22.618	8.278	1.00	24.47	O
HETATM	6617	O	HOH	629	53.161	75.741	28.705	1.00	25.91	O
HETATM	6618	O	HOH	630	67.083	44.538	-11.207	1.00	23.95	O
HETATM	6619	O	HOH	631	49.812	62.364	41.899	1.00	28.03	O
HETATM	6620	O	HOH	632	49.758	18.237	23.797	1.00	28.69	O
HETATM	6621	O	HOH	633	45.628	36.284	14.289	1.00	29.87	O
HETATM	6622	O	HOH	634	26.872	73.496	13.593	1.00	25.31	O
HETATM	6623	O	HOH	635	66.702	42.149	11.391	1.00	23.43	O
HETATM	6624	O	HOH	636	18.225	66.688	25.753	1.00	25.33	O
HETATM	6625	O	HOH	637	74.323	55.875	15.789	1.00	26.25	O
HETATM	6626	O	HOH	638	63.963	20.954	1.828	1.00	30.27	O
HETATM	6627	O	HOH	639	44.151	64.410	12.603	1.00	26.74	O
HETATM	6628	O	HOH	640	54.959	66.358	37.017	1.00	23.31	O
HETATM	6629	O	HOH	641	17.972	74.876	29.666	1.00	28.80	O
HETATM	6630	O	HOH	642	56.008	68.419	12.364	1.00	28.23	O
HETATM	6631	O	HOH	643	47.220	73.137	31.263	1.00	30.71	O
HETATM	6632	O	HOH	644	22.823	74.430	18.569	1.00	29.41	O
HETATM	6633	O	HOH	645	15.428	55.920	17.560	1.00	32.44	O
HETATM	6634	O	HOH	646	53.849	53.721	18.454	1.00	32.24	O
HETATM	6635	O	HOH	647	33.056	71.419	10.707	1.00	24.67	O
HETATM	6636	O	HOH	648	65.233	58.428	11.447	1.00	25.43	O
HETATM	6637	O	HOH	649	52.013	60.774	40.453	1.00	29.36	O
HETATM	6638	O	HOH	650	58.064	65.754	-1.162	1.00	27.91	O
HETATM	6639	O	HOH	651	55.976	52.543	24.737	1.00	29.89	O
HETATM	6640	O	HOH	652	52.218	63.200	38.021	1.00	25.08	O
HETATM	6641	O	HOH	653	49.783	37.529	-4.354	1.00	35.25	O
HETATM	6642	O	HOH	654	68.647	56.459	27.732	1.00	25.67	O
HETATM	6643	O	HOH	655	60.136	56.305	-5.792	1.00	28.67	O
HETATM	6644	O	HOH	656	63.708	22.401	9.009	1.00	31.13	O
HETATM	6645	O	HOH	657	53.399	26.022	1.530	1.00	29.74	O
HETATM	6646	O	HOH	658	31.115	62.724	32.078	1.00	25.93	O
HETATM	6647	O	HOH	659	34.055	74.494	34.030	1.00	25.69	O
HETATM	6648	O	HOH	660	19.261	60.948	21.462	1.00	28.42	O



HETATM	6649	O	HOH	661	40.822	41.382	10.100	1.00	34.86	O
HETATM	6650	O	HOH	662	46.728	53.621	-3.384	1.00	26.88	O
HETATM	6651	O	HOH	663	21.802	77.351	29.520	1.00	29.13	O
HETATM	6652	O	HOH	664	67.948	26.947	18.182	1.00	31.15	O
HETATM	6653	O	HOH	665	57.406	51.457	18.340	1.00	29.34	O
HETATM	6654	O	HOH	666	37.829	75.371	34.102	1.00	29.07	O
HETATM	6655	O	HOH	667	67.172	17.961	13.574	1.00	28.00	O
HETATM	6656	O	HOH	668	64.648	46.306	-15.001	1.00	33.38	O
HETATM	6657	O	HOH	669	59.906	51.324	17.314	1.00	27.82	O
HETATM	6658	O	HOH	670	67.124	35.455	10.005	1.00	21.37	O
HETATM	6659	O	HOH	671	25.238	74.882	15.039	1.00	27.05	O
HETATM	6660	O	HOH	672	59.326	57.054	31.186	1.00	29.59	O
HETATM	6661	O	HOH	673	49.045	44.150	15.083	1.00	26.35	O
HETATM	6662	O	HOH	674	47.345	82.492	29.307	1.00	29.64	O
HETATM	6663	O	HOH	675	43.705	79.984	36.388	1.00	29.57	O
HETATM	6664	O	HOH	676	31.602	63.912	22.506	1.00	28.55	O
HETATM	6665	O	HOH	677	26.337	45.015	3.873	1.00	27.15	O
HETATM	6666	O	HOH	678	47.219	42.961	16.758	1.00	28.85	O
HETATM	6667	O	HOH	679	40.895	77.899	13.209	1.00	31.83	O
HETATM	6668	O	HOH	680	64.128	18.113	11.267	1.00	30.44	O
HETATM	6669	O	HOH	681	46.709	50.728	12.754	1.00	28.40	O
HETATM	6670	O	HOH	682	56.885	24.110	7.331	1.00	29.36	O
HETATM	6671	O	HOH	683	45.959	82.433	23.626	1.00	35.03	O
HETATM	6672	O	HOH	684	64.851	57.541	16.275	1.00	31.54	O
HETATM	6673	O	HOH	685	56.241	60.441	32.522	1.00	32.11	O
HETATM	6674	O	HOH	686	13.257	71.212	23.500	1.00	30.60	O
HETATM	6675	O	HOH	687	51.325	18.490	11.095	1.00	29.75	O
HETATM	6676	O	HOH	688	71.696	34.150	-1.128	1.00	27.94	O
HETATM	6677	O	HOH	689	35.385	67.357	9.876	1.00	33.55	O
HETATM	6678	O	HOH	690	37.306	64.113	14.135	1.00	29.13	O
HETATM	6679	O	HOH	691	65.845	42.654	-13.105	1.00	27.52	O
HETATM	6680	O	HOH	692	41.199	48.665	-1.815	1.00	32.59	O
HETATM	6681	O	HOH	693	29.557	63.314	14.875	1.00	29.62	O
HETATM	6682	O	HOH	694	77.773	37.726	6.387	1.00	31.23	O
HETATM	6683	O	HOH	695	40.097	74.563	30.380	1.00	27.00	O
HETATM	6684	O	HOH	696	39.987	81.096	37.327	1.00	29.51	O
HETATM	6685	O	HOH	697	51.752	78.707	2.763	1.00	28.60	O
HETATM	6686	O	HOH	698	63.616	24.552	-2.642	1.00	29.78	O
HETATM	6687	O	HOH	699	41.396	62.219	14.438	1.00	27.00	O
HETATM	6688	O	HOH	700	35.595	62.002	13.844	1.00	27.81	O
HETATM	6689	O	HOH	701	69.671	52.593	-13.043	1.00	32.97	O
HETATM	6690	O	HOH	702	64.118	71.489	13.842	1.00	34.66	O
HETATM	6691	O	HOH	703	68.745	50.712	-14.569	1.00	28.93	O
HETATM	6692	O	HOH	704	49.565	42.876	-6.382	1.00	29.57	O
HETATM	6693	O	HOH	705	67.755	39.340	10.298	1.00	26.82	O
HETATM	6694	O	HOH	706	67.927	62.344	8.099	1.00	29.51	O
HETATM	6695	O	HOH	707	59.138	61.414	-3.991	1.00	41.13	O
HETATM	6696	O	HOH	708	70.494	51.236	3.721	1.00	33.45	O
HETATM	6697	O	HOH	709	65.553	35.018	-15.208	1.00	33.05	O
HETATM	6698	O	HOH	710	54.710	77.574	30.314	1.00	31.12	O
HETATM	6699	O	HOH	711	48.633	49.238	14.273	1.00	30.11	O
HETATM	6700	O	HOH	712	41.773	39.494	-2.747	1.00	31.34	O
HETATM	6701	O	HOH	713	72.619	54.600	-6.852	1.00	30.31	O
HETATM	6702	O	HOH	714	33.507	65.880	28.821	1.00	29.47	O
HETATM	6703	O	HOH	715	29.340	85.397	18.635	1.00	32.97	O
HETATM	6704	O	HOH	716	31.912	76.128	33.455	1.00	30.75	O
HETATM	6705	O	HOH	717	36.720	61.078	16.341	1.00	29.92	O
HETATM	6706	O	HOH	718	19.307	48.279	14.382	1.00	30.63	O
HETATM	6707	O	HOH	719	40.895	44.335	-6.266	1.00	29.41	O
HETATM	6708	O	HOH	720	62.416	66.949	35.034	1.00	31.32	O
HETATM	6709	O	HOH	721	73.701	50.855	-19.456	1.00	31.52	O
HETATM	6710	O	HOH	722	40.736	28.323	6.825	1.00	31.24	O
HETATM	6711	O	HOH	723	28.254	78.568	22.070	1.00	25.06	O
HETATM	6712	O	HOH	724	42.149	65.834	8.925	1.00	36.42	O
HETATM	6713	O	HOH	725	54.484	67.933	-8.050	1.00	31.76	O
HETATM	6714	O	HOH	726	56.730	73.963	34.639	1.00	32.97	O
HETATM	6715	O	HOH	727	19.721	61.568	13.586	1.00	30.67	O
HETATM	6716	O	HOH	728	76.707	57.259	15.765	1.00	29.35	O
HETATM	6717	O	HOH	729	47.029	25.705	15.702	1.00	26.34	O
HETATM	6718	O	HOH	730	75.737	53.983	9.023	1.00	32.57	O
HETATM	6719	O	HOH	731	44.210	23.023	11.259	1.00	31.76	O
HETATM	6720	O	HOH	732	53.832	56.551	28.486	1.00	41.17	O
HETATM	6721	O	HOH	733	25.375	74.786	17.915	1.00	31.25	O
HETATM	6722	O	HOH	734	53.105	81.007	3.765	1.00	33.95	O
HETATM	6723	O	HOH	735	41.395	76.318	31.882	1.00	29.17	O
HETATM	6724	O	HOH	736	62.558	20.429	7.861	1.00	29.81	O
HETATM	6725	O	HOH	737	75.553	30.173	23.040	1.00	46.38	O
HETATM	6726	O	HOH	738	73.614	41.132	10.695	1.00	32.35	O
HETATM	6727	O	HOH	739	76.769	35.491	5.052	1.00	35.35	O
HETATM	6728	O	HOH	740	80.184	56.221	27.164	1.00	34.76	O



HETATM	6729	O	HOH	741	35.736	63.217	17.910	1.00	30.28	O
HETATM	6730	O	HOH	742	31.672	36.438	-1.820	1.00	35.09	O
HETATM	6731	O	HOH	743	59.441	42.972	-10.394	1.00	31.87	O
HETATM	6732	O	HOH	744	49.225	27.378	23.532	1.00	34.99	O
HETATM	6733	O	HOH	745	51.033	70.797	41.458	1.00	35.82	O
HETATM	6734	O	HOH	746	49.032	71.989	39.750	1.00	29.24	O
HETATM	6735	O	HOH	747	50.672	18.527	3.936	1.00	38.55	O
HETATM	6736	O	HOH	748	56.079	67.571	39.395	1.00	31.51	O
HETATM	6737	O	HOH	749	39.644	49.384	-4.088	1.00	30.17	O
HETATM	6738	O	HOH	750	56.121	40.635	-6.476	1.00	32.28	O
HETATM	6739	O	HOH	751	81.155	24.391	16.166	1.00	32.62	O
HETATM	6740	O	HOH	752	16.345	71.446	16.294	1.00	30.62	O
HETATM	6741	O	HOH	753	23.612	52.227	12.365	1.00	37.92	O
HETATM	6742	O	HOH	754	78.674	51.305	-2.049	1.00	32.36	O
HETATM	6743	O	HOH	755	40.616	72.840	9.816	1.00	33.11	O
HETATM	6744	O	HOH	756	68.774	54.169	-0.120	1.00	32.67	O
HETATM	6745	O	HOH	757	49.951	39.759	22.488	1.00	47.70	O
HETATM	6746	O	HOH	758	38.642	58.540	7.999	1.00	32.64	O
HETATM	6747	O	HOH	759	29.547	52.501	1.732	1.00	34.07	O
HETATM	6748	O	HOH	760	75.842	46.476	-19.646	1.00	31.02	O
HETATM	6749	O	HOH	761	27.987	56.774	20.632	1.00	34.14	O
HETATM	6750	O	HOH	762	44.532	51.511	3.799	1.00	32.50	O
HETATM	6751	O	HOH	763	54.089	50.184	12.174	1.00	29.07	O
HETATM	6752	O	HOH	764	32.613	80.980	28.411	1.00	30.37	O
HETATM	6753	O	HOH	765	12.929	72.050	26.005	1.00	34.51	O
HETATM	6754	O	HOH	766	64.225	22.579	-0.959	1.00	35.44	O
HETATM	6755	O	HOH	767	42.536	36.280	14.513	1.00	36.93	O
HETATM	6756	O	HOH	768	34.476	73.084	38.137	1.00	31.36	O
HETATM	6757	O	HOH	769	72.931	42.614	-2.484	1.00	35.03	O
HETATM	6758	O	HOH	770	49.842	46.715	15.367	1.00	33.25	O
HETATM	6759	O	HOH	771	45.461	22.695	23.716	1.00	35.13	O
HETATM	6760	O	HOH	772	29.552	80.066	7.156	1.00	40.65	O
HETATM	6761	O	HOH	773	54.038	75.947	34.979	1.00	40.34	O
HETATM	6762	O	HOH	774	55.818	80.082	0.409	1.00	34.69	O
HETATM	6763	O	HOH	775	59.973	20.332	-0.741	1.00	31.82	O
HETATM	6764	O	HOH	776	45.399	70.238	-9.026	1.00	33.58	O
HETATM	6765	O	HOH	777	44.794	84.913	26.260	1.00	42.34	O
HETATM	6766	O	HOH	778	44.183	23.888	21.502	1.00	41.57	O
HETATM	6767	O	HOH	779	77.864	27.157	21.109	1.00	37.26	O
HETATM	6768	O	HOH	780	66.376	64.716	-3.051	1.00	31.79	O
HETATM	6769	O	HOH	781	61.751	72.991	18.784	1.00	33.77	O
HETATM	6770	O	HOH	782	78.674	23.627	7.871	1.00	30.93	O
HETATM	6771	O	HOH	783	74.092	36.844	24.316	1.00	33.70	O
HETATM	6772	O	HOH	784	49.034	74.252	37.585	1.00	32.90	O
HETATM	6773	O	HOH	785	29.890	78.039	31.289	1.00	41.56	O
HETATM	6774	O	HOH	786	53.317	60.760	-9.489	1.00	32.11	O
HETATM	6775	O	HOH	787	41.913	78.306	43.612	1.00	31.73	O
HETATM	6776	O	HOH	788	74.563	40.929	14.354	1.00	28.47	O
HETATM	6777	O	HOH	789	42.282	78.658	29.485	1.00	30.26	O
HETATM	6778	O	HOH	790	46.497	43.940	19.468	1.00	41.99	O
HETATM	6779	O	HOH	791	16.327	56.994	10.870	1.00	30.37	O
HETATM	6780	O	HOH	792	28.236	84.158	16.262	1.00	36.68	O
HETATM	6781	O	HOH	793	47.432	64.680	-0.990	1.00	33.28	O
HETATM	6782	O	HOH	794	47.886	39.653	17.623	1.00	36.89	O
HETATM	6783	O	HOH	795	58.076	74.417	12.757	1.00	30.83	O
HETATM	6784	O	HOH	796	68.564	68.587	21.496	1.00	34.00	O
HETATM	6785	O	HOH	797	42.096	22.714	12.801	1.00	31.57	O
HETATM	6786	O	HOH	798	69.485	45.250	-18.708	1.00	35.03	O
HETATM	6787	O	HOH	799	57.344	10.310	11.010	1.00	36.27	O
HETATM	6788	O	HOH	800	53.878	53.866	14.131	1.00	29.02	O
HETATM	6789	O	HOH	801	78.012	39.562	4.409	1.00	37.12	O
HETATM	6790	O	HOH	802	82.649	25.076	0.912	1.00	36.25	O
HETATM	6791	O	HOH	803	55.285	52.191	20.090	1.00	32.80	O
HETATM	6792	O	HOH	804	51.246	21.295	7.047	1.00	38.87	O
HETATM	6793	O	HOH	805	20.004	48.511	6.583	1.00	31.14	O
HETATM	6794	O	HOH	806	53.943	73.884	-5.312	1.00	35.10	O
HETATM	6795	O	HOH	807	41.640	75.238	9.998	1.00	31.86	O
HETATM	6796	O	HOH	808	45.554	32.615	13.875	1.00	32.18	O
HETATM	6797	O	HOH	809	47.887	72.025	50.589	1.00	38.02	O
HETATM	6798	O	HOH	810	85.773	31.661	1.633	1.00	40.43	O
HETATM	6799	O	HOH	811	62.377	13.074	7.147	1.00	36.89	O
HETATM	6800	O	HOH	812	69.186	35.165	19.634	1.00	40.06	O
HETATM	6801	O	HOH	813	32.999	81.204	31.206	1.00	40.07	O
HETATM	6802	O	HOH	814	52.762	77.604	37.004	1.00	36.25	O
HETATM	6803	O	HOH	815	61.473	54.776	-7.476	1.00	27.75	O
HETATM	6804	O	HOH	816	52.458	18.929	8.578	1.00	38.93	O
HETATM	6805	O	HOH	817	30.120	55.588	9.518	1.00	38.20	O
HETATM	6806	O	HOH	818	28.630	67.327	9.361	1.00	34.85	O
HETATM	6807	O	HOH	819	45.204	51.176	-2.036	1.00	32.00	O
HETATM	6808	O	HOH	820	82.025	44.349	32.234	1.00	32.59	O



HETATM	6809	O	HOH	821	76.725	47.141	19.581	1.00	38.48	O
HETATM	6810	O	HOH	822	50.316	22.264	1.151	1.00	42.15	O
HETATM	6811	O	HOH	823	72.205	61.838	-6.454	1.00	35.71	O
HETATM	6812	O	HOH	824	33.073	62.546	12.891	1.00	30.52	O
HETATM	6813	O	HOH	825	64.064	57.161	26.324	1.00	39.89	O
HETATM	6814	O	HOH	826	47.208	56.613	39.079	1.00	35.19	O
HETATM	6815	O	HOH	827	56.992	78.539	28.562	1.00	36.68	O
HETATM	6816	O	HOH	828	48.385	18.397	11.999	1.00	42.06	O
HETATM	6817	O	HOH	829	81.067	26.587	9.105	1.00	40.92	O
HETATM	6818	O	HOH	830	51.032	25.292	-2.354	1.00	33.62	O
HETATM	6819	O	HOH	831	57.879	77.214	7.669	1.00	38.42	O
HETATM	6820	O	HOH	832	72.001	34.409	-14.612	1.00	36.92	O
HETATM	6821	O	HOH	833	73.405	63.529	14.442	1.00	32.73	O
HETATM	6822	O	HOH	834	52.893	77.993	-4.477	1.00	36.00	O
HETATM	6823	O	HOH	835	57.680	54.844	30.174	1.00	41.19	O
HETATM	6824	O	HOH	836	31.900	43.284	-5.440	1.00	40.82	O
HETATM	6825	O	HOH	837	37.935	47.027	-11.343	1.00	38.42	O
HETATM	6826	O	HOH	838	72.020	68.279	16.697	1.00	34.23	O
HETATM	6827	O	HOH	839	13.039	68.655	23.012	1.00	32.70	O
HETATM	6828	O	HOH	840	64.744	15.766	16.254	1.00	41.27	O
HETATM	6829	O	HOH	841	49.874	21.347	3.639	1.00	42.31	O
HETATM	6830	O	HOH	842	41.304	83.844	26.590	1.00	36.62	O
HETATM	6831	O	HOH	843	47.392	23.197	3.862	1.00	35.32	O
HETATM	6832	O	HOH	844	80.673	17.124	14.681	1.00	39.83	O
HETATM	6833	O	HOH	845	74.977	41.220	8.179	1.00	38.32	O
HETATM	6834	O	HOH	846	54.184	53.852	27.339	1.00	38.95	O
HETATM	6835	O	HOH	847	78.552	21.535	6.066	1.00	41.20	O
HETATM	6836	O	HOH	848	39.325	40.909	3.615	1.00	32.48	O
HETATM	6837	O	HOH	849	58.889	39.387	-12.157	1.00	47.98	O
HETATM	6838	O	HOH	850	75.250	42.722	12.419	1.00	39.97	O
HETATM	6839	O	HOH	851	51.932	38.799	18.466	1.00	35.19	O
HETATM	6840	O	HOH	852	59.519	12.010	10.075	1.00	44.26	O
HETATM	6841	O	HOH	853	81.156	22.735	0.482	1.00	47.27	O
HETATM	6842	O	HOH	854	70.797	51.823	-20.434	1.00	46.67	O
HETATM	6843	O	HOH	855	47.257	40.058	-7.069	1.00	41.15	O
HETATM	6844	O	HOH	856	32.199	57.847	21.424	1.00	43.46	O
HETATM	6845	O	HOH	857	82.450	32.940	8.763	1.00	36.22	O
HETATM	6846	O	HOH	858	69.976	36.812	21.852	1.00	47.76	O
HETATM	6847	O	HOH	859	71.474	39.570	1.424	1.00	36.77	O
HETATM	6848	O	HOH	860	48.588	84.548	36.069	1.00	37.18	O
HETATM	6849	O	HOH	861	57.939	80.349	10.438	1.00	51.26	O
HETATM	6850	O	HOH	862	13.318	54.848	18.078	1.00	45.75	O
HETATM	6851	O	HOH	863	66.525	34.844	-17.693	1.00	40.73	O
HETATM	6852	O	HOH	864	25.128	42.687	-2.218	1.00	45.60	O
HETATM	6853	O	HOH	865	49.321	66.441	-10.819	1.00	37.76	O
HETATM	6854	O	HOH	866	61.831	63.967	-4.075	1.00	51.53	O
HETATM	6855	O	HOH	867	42.179	81.001	47.761	1.00	44.84	O
HETATM	6856	O	HOH	868	81.449	39.988	-2.730	1.00	42.55	O
HETATM	6857	O	HOH	869	61.168	27.647	-9.057	1.00	38.65	O
HETATM	6858	O	HOH	870	66.343	59.967	-8.930	1.00	38.60	O
HETATM	6859	O	HOH	871	51.547	73.619	35.728	1.00	39.98	O
HETATM	6860	O	HOH	872	21.033	52.277	13.027	1.00	38.53	O
HETATM	6861	O	HOH	873	79.274	21.795	-4.413	1.00	38.23	O
HETATM	6862	O	HOH	874	73.474	39.752	-19.352	1.00	49.74	O
HETATM	6863	O	HOH	875	32.810	89.252	17.801	1.00	43.31	O
HETATM	6864	O	HOH	876	44.270	91.621	18.804	1.00	45.26	O
HETATM	6865	O	HOH	877	42.219	50.952	-2.102	1.00	54.46	O
HETATM	6866	O	HOH	878	18.231	56.095	9.241	1.00	41.27	O
HETATM	6867	O	HOH	879	34.224	71.800	8.206	1.00	39.76	O
HETATM	6868	O	HOH	880	29.043	83.066	29.997	1.00	50.31	O
HETATM	6869	O	HOH	881	63.331	21.034	4.718	1.00	33.50	O
HETATM	6870	O	HOH	882	54.824	21.340	-4.855	1.00	42.04	O
HETATM	6871	O	HOH	883	34.718	83.584	2.032	1.00	48.78	O
HETATM	6872	O	HOH	884	80.992	52.923	-2.610	1.00	48.59	O
HETATM	6873	O	HOH	885	36.554	19.691	19.134	1.00	38.44	O
HETATM	6874	O	HOH	886	64.080	20.754	-3.154	1.00	47.12	O
HETATM	6875	O	HOH	887	39.675	79.270	6.087	1.00	37.33	O
HETATM	6876	O	HOH	888	52.500	47.294	-11.559	1.00	33.62	O
HETATM	6877	O	HOH	889	76.049	38.449	-4.197	1.00	41.92	O
HETATM	6878	O	HOH	890	13.820	72.324	19.959	1.00	43.52	O
HETATM	6879	O	HOH	891	45.000	67.842	50.373	1.00	44.32	O
HETATM	6880	O	HOH	892	28.663	50.151	-0.072	1.00	40.47	O
HETATM	6881	O	HOH	893	84.782	34.514	-0.162	1.00	44.26	O
HETATM	6882	O	HOH	894	73.489	29.905	21.849	1.00	47.33	O
HETATM	6883	O	HOH	895	39.758	23.287	11.680	1.00	38.35	O
HETATM	6884	O	HOH	896	35.347	82.532	32.535	1.00	51.50	O
HETATM	6885	O	HOH	897	76.042	66.841	28.999	1.00	44.66	O
HETATM	6886	O	HOH	898	44.711	84.211	45.105	1.00	45.68	O
HETATM	6887	O	HOH	899	55.495	5.369	10.389	1.00	57.40	O
HETATM	6888	O	HOH	900	20.192	81.949	28.341	1.00	47.67	O



HETATM	6889	O	HOH	901	51.158	10.938	19.530	1.00	38.90	O
HETATM	6890	O	HOH	902	27.023	80.918	10.035	1.00	39.40	O
HETATM	6891	O	HOH	903	30.175	34.352	-1.451	1.00	41.43	O
HETATM	6892	O	HOH	904	42.332	88.504	24.948	1.00	33.46	O
HETATM	6893	O	HOH	905	28.224	55.687	11.427	1.00	49.33	O
HETATM	6894	O	HOH	906	47.092	19.856	2.083	1.00	55.80	O
HETATM	6895	O	HOH	907	20.471	79.065	30.914	1.00	42.45	O
HETATM	6896	O	HOH	908	54.560	42.039	-9.895	1.00	45.35	O
HETATM	6897	O	HOH	909	82.951	40.082	28.752	1.00	51.14	O
HETATM	6898	O	HOH	910	75.582	23.315	-10.200	1.00	40.26	O
HETATM	6899	O	HOH	911	16.659	54.932	14.801	1.00	39.40	O
HETATM	6900	O	HOH	912	71.055	48.676	12.654	1.00	38.62	O
HETATM	6901	O	HOH	913	73.061	66.725	8.835	1.00	40.82	O
HETATM	6902	O	HOH	914	48.816	86.217	23.384	1.00	48.90	O
HETATM	6903	O	HOH	915	51.932	7.189	4.258	1.00	47.09	O
HETATM	6904	O	HOH	916	38.159	74.263	47.339	1.00	48.20	O
HETATM	6905	O	HOH	917	33.288	83.625	26.955	1.00	45.92	O
HETATM	6906	O	HOH	918	43.698	63.895	2.658	1.00	44.91	O
HETATM	6907	O	HOH	919	49.175	49.868	-9.876	1.00	41.07	O
HETATM	6908	O	HOH	920	68.193	73.928	15.102	1.00	47.20	O
HETATM	6909	O	HOH	921	25.690	50.476	0.789	1.00	51.79	O
HETATM	6910	O	HOH	922	75.717	43.784	5.183	1.00	51.56	O
HETATM	6911	O	HOH	923	90.522	39.141	22.222	1.00	50.76	O
HETATM	6912	O	HOH	924	64.372	75.769	8.397	1.00	45.54	O
HETATM	6913	O	HOH	925	38.767	92.010	15.938	1.00	45.99	O
HETATM	6914	O	HOH	926	45.206	12.784	16.283	1.00	45.94	O
HETATM	6915	O	HOH	927	32.556	57.735	3.274	1.00	44.62	O
HETATM	6916	O	HOH	928	80.311	54.758	19.042	1.00	42.29	O
HETATM	6917	O	HOH	929	57.984	11.004	4.554	1.00	48.70	O
HETATM	6918	O	HOH	930	33.237	67.899	8.218	1.00	48.72	O
HETATM	6919	O	HOH	931	66.558	65.330	-6.169	1.00	50.38	O
HETATM	6920	O	HOH	932	54.813	50.451	15.884	1.00	45.79	O
HETATM	6921	O	HOH	933	58.643	39.048	-9.826	1.00	55.39	O
HETATM	6922	O	HOH	934	45.751	27.749	-1.249	1.00	45.14	O
HETATM	6923	O	HOH	935	58.519	69.311	38.961	1.00	48.81	O
HETATM	6924	O	HOH	936	54.605	62.607	-10.854	1.00	48.49	O
HETATM	6925	O	HOH	937	82.921	35.243	28.514	1.00	48.30	O
HETATM	6926	O	HOH	938	38.846	65.204	11.859	1.00	43.41	O
HETATM	6927	O	HOH	939	30.961	21.939	18.337	1.00	41.29	O
HETATM	6928	O	HOH	940	49.022	67.588	-15.795	1.00	62.58	O
HETATM	6929	O	HOH	941	49.328	80.374	-10.479	1.00	55.68	O
HETATM	6930	O	HOH	942	58.639	8.124	12.035	1.00	41.75	O</



HETATM	6969	O	HOH	981	61.762	22.109	0.623	1.00	27.03	O
HETATM	6970	O	HOH	982	60.798	55.526	27.120	1.00	25.62	O
HETATM	6971	O	HOH	983	45.726	80.815	27.697	1.00	26.67	O
HETATM	6972	O	HOH	984	33.643	62.410	19.248	1.00	28.11	O
HETATM	6973	O	HOH	985	55.515	53.696	22.364	1.00	27.84	O
HETATM	6974	O	HOH	986	33.211	59.860	32.077	1.00	26.03	O
HETATM	6975	O	HOH	987	32.402	55.103	16.158	1.00	26.40	O
HETATM	6976	O	HOH	988	49.103	40.086	-4.714	1.00	38.75	O
HETATM	6977	O	HOH	989	42.973	80.974	28.270	1.00	30.98	O
HETATM	6978	O	HOH	990	32.647	59.484	19.573	1.00	31.01	O
HETATM	6979	O	HOH	991	64.255	29.399	26.239	1.00	31.45	O
HETATM	6980	O	HOH	992	57.345	63.545	0.200	1.00	30.05	O
HETATM	6981	O	HOH	993	71.844	41.260	14.011	1.00	30.77	O
HETATM	6982	O	HOH	994	51.848	24.156	0.153	1.00	31.37	O
HETATM	6983	O	HOH	995	75.273	57.464	-6.871	1.00	33.22	O
HETATM	6984	O	HOH	996	47.117	70.792	-5.509	1.00	38.66	O
HETATM	6985	O	HOH	997	63.580	71.623	16.862	1.00	35.90	O
HETATM	6986	O	HOH	998	70.038	29.955	14.603	1.00	30.42	O
HETATM	6987	O	HOH	999	51.911	75.942	-5.336	1.00	32.10	O
HETATM	6988	O	HOH	1000	55.676	52.233	13.129	1.00	36.62	O
HETATM	6989	O	HOH	1001	70.416	37.374	14.648	1.00	29.45	O
HETATM	6990	O	HOH	1002	70.601	61.206	13.735	1.00	39.59	O
HETATM	6991	O	HOH	1003	48.365	37.294	16.198	1.00	32.18	O
HETATM	6992	O	HOH	1004	34.596	52.624	-0.011	1.00	30.92	O
HETATM	6993	O	HOH	1005	53.640	46.684	16.486	1.00	35.96	O
HETATM	6994	O	HOH	1006	52.577	52.474	12.156	1.00	33.63	O
HETATM	6995	O	HOH	1007	64.896	73.773	6.762	1.00	37.54	O
HETATM	6996	O	HOH	1008	77.114	44.462	-20.640	1.00	35.84	O
HETATM	6997	O	HOH	1009	57.373	68.449	-1.294	1.00	29.11	O
HETATM	6998	O	HOH	1010	59.295	15.277	5.588	1.00	31.92	O
HETATM	6999	O	HOH	1011	29.856	81.576	27.715	1.00	32.85	O
HETATM	7000	O	HOH	1012	50.242	54.925	26.792	1.00	34.36	O
HETATM	7001	O	HOH	1013	53.665	44.213	24.033	0.50	31.68	O
HETATM	7002	O	HOH	1014	26.402	76.618	19.543	1.00	33.92	O
HETATM	7003	O	HOH	1015	71.860	38.186	-0.736	1.00	34.55	O
HETATM	7004	O	HOH	1016	75.703	17.985	7.160	1.00	35.04	O
HETATM	7005	O	HOH	1017	51.472	52.224	18.905	1.00	35.33	O
HETATM	7006	O	HOH	1018	47.069	22.607	19.052	1.00	34.30	O
HETATM	7007	O	HOH	1019	71.380	37.432	19.486	1.00	38.39	O
HETATM	7008	O	HOH	1020	71.891	32.395	17.971	1.00	34.61	O
HETATM	7009	O	HOH	1021	48.205	84.582	27.791	1.00	37.32	O
HETATM	7010	O	HOH	1022	56.994	41.976	-9.137	1.00	43.51	O
HETATM	7011	O	HOH	1023	68.075	62.403	11.240	1.00	33.78	O
HETATM	7012	O	HOH	1024	67.480	40.486	8.011	1.00	43.53	O
HETATM	7013	O	HOH	1025	45.254	82.461	36.841	1.00	34.90	O
HETATM	7014	O	HOH	1026	40.753	78.492	40.792	1.00	35.62	O
HETATM	7015	O	HOH	1027	32.367	65.276	24.815	1.00	31.27	O
HETATM	7016	O	HOH	1028	44.005	37.936	16.571	1.00	34.76	O
HETATM	7017	O	HOH	1029	41.969	65.947	13.858	1.00	40.29	O
HETATM	7018	O	HOH	1030	14.755	67.112	8.241	1.00	36.11	O
HETATM	7019	O	HOH	1031	35.515	65.044	11.873	1.00	32.86	O
HETATM	7020	O	HOH	1032	24.116	78.284	29.167	1.00	40.87	O
HETATM	7021	O	HOH	1033	69.472	44.640	5.835	1.00	44.12	O
HETATM	7022	O	HOH	1034	71.579	53.459	2.643	1.00	44.58	O
HETATM	7023	O	HOH	1035	43.100	51.796	-8.854	1.00	35.01	O
HETATM	7024	O	HOH	1036	33.852	60.337	22.170	1.00	35.07	O
HETATM	7025	O	HOH	1037	68.419	29.814	18.251	1.00	43.47	O
HETATM	7026	O	HOH	1038	71.399	36.338	16.777	1.00	34.15	O
HETATM	7027	O	HOH	1039	38.082	28.026	6.439	1.00	37.50	O
HETATM	7028	O	HOH	1040	20.386	58.985	22.646	1.00	40.13	O
HETATM	7029	O	HOH	1041	70.791	30.022	17.381	1.00	33.62	O
HETATM	7030	O	HOH	1042	39.983	77.270	10.436	1.00	42.60	O
HETATM	7031	O	HOH	1043	67.226	53.984	-12.300	1.00	36.53	O
HETATM	7032	O	HOH	1044	21.695	74.910	30.404	1.00	34.37	O
HETATM	7033	O	HOH	1045	72.787	18.375	6.961	1.00	42.34	O
HETATM	7034	O	HOH	1046	20.654	63.131	22.203	1.00	35.76	O
HETATM	7035	O	HOH	1047	31.960	78.931	32.765	1.00	43.06	O
HETATM	7036	O	HOH	1048	54.157	7.855	11.282	1.00	40.64	O
HETATM	7037	O	HOH	1049	22.309	62.317	24.034	0.50	31.84	O
HETATM	7038	O	HOH	1050	51.609	69.890	43.678	1.00	47.48	O
HETATM	7039	O	HOH	1051	30.479	66.782	7.529	1.00	44.06	O
HETATM	7040	O	HOH	1052	55.059	77.328	32.882	1.00	45.76	O
HETATM	7041	O	HOH	1053	85.680	36.239	29.762	1.00	45.21	O
HETATM	7042	O	HOH	1054	65.839	73.059	16.956	1.00	42.04	O
HETATM	7043	O	HOH	1055	54.846	49.661	20.599	1.00	37.51	O
HETATM	7044	O	HOH	1056	58.256	59.386	33.722	1.00	42.00	O
HETATM	7045	O	HOH	1057	65.944	57.084	13.698	1.00	37.69	O
HETATM	7046	O	HOH	1058	73.404	34.678	25.614	1.00	47.09	O
HETATM	7047	O	HOH	1059	40.551	51.217	-7.633	1.00	45.20	O
HETATM	7048	O	HOH	1060	42.100	76.222	47.161	1.00	39.30	O



HETATM	7049	O	HOH	1061	50.831	45.529	18.496	1.00	44.51	O
HETATM	7050	O	HOH	1062	13.192	69.813	18.777	1.00	45.43	O
HETATM	7051	O	HOH	1063	42.975	50.511	1.486	1.00	37.87	O
HETATM	7052	O	HOH	1064	56.550	14.388	-0.107	1.00	40.33	O
HETATM	7053	O	HOH	1065	64.835	32.342	-14.240	1.00	43.30	O
HETATM	7054	O	HOH	1066	51.733	49.277	13.107	1.00	39.96	O
HETATM	7055	O	HOH	1067	52.434	87.375	11.987	1.00	45.02	O
HETATM	7056	O	HOH	1068	69.761	16.982	13.047	1.00	36.23	O
HETATM	7057	O	HOH	1069	15.124	73.595	26.093	1.00	39.49	O
HETATM	7058	O	HOH	1070	83.899	30.602	8.907	1.00	45.50	O
HETATM	7059	O	HOH	1071	42.130	80.236	38.659	1.00	41.98	O
HETATM	7060	O	HOH	1072	40.456	40.716	-4.886	1.00	45.96	O
HETATM	7061	O	HOH	1073	42.212	82.167	0.382	1.00	41.49	O
HETATM	7062	O	HOH	1074	25.884	84.369	16.920	1.00	44.81	O
HETATM	7063	O	HOH	1075	74.885	44.539	-18.066	1.00	40.05	O
HETATM	7064	O	HOH	1076	80.970	43.497	-7.221	1.00	45.24	O
HETATM	7065	O	HOH	1077	69.475	35.086	24.034	0.50	41.66	O
HETATM	7066	O	HOH	1078	69.991	59.031	27.395	1.00	36.48	O
HETATM	7067	O	HOH	1079	27.970	68.331	30.106	1.00	37.40	O
HETATM	7068	O	HOH	1080	67.608	51.635	-17.017	1.00	47.92	O
HETATM	7069	O	HOH	1081	62.658	23.434	-6.784	1.00	48.60	O
HETATM	7070	O	HOH	1082	79.319	55.656	-2.200	1.00	45.80	O
HETATM	7071	O	HOH	1083	19.053	57.575	20.041	1.00	43.84	O
HETATM	7072	O	HOH	1084	77.578	70.315	14.257	1.00	45.25	O
HETATM	7073	O	HOH	1085	52.897	44.552	-12.367	1.00	43.96	O
HETATM	7074	O	HOH	1086	28.157	81.058	23.056	1.00	42.21	O
HETATM	7075	O	HOH	1087	38.138	42.078	-2.792	1.00	47.30	O
HETATM	7076	O	HOH	1088	19.107	53.596	15.691	1.00	46.37	O
HETATM	7077	O	HOH	1089	67.239	17.948	1.042	1.00	45.45	O
HETATM	7078	O	HOH	1090	39.076	79.288	-0.715	1.00	45.27	O
HETATM	7079	O	HOH	1091	34.286	88.752	11.664	1.00	37.88	O
HETATM	7080	O	HOH	1092	24.838	81.795	21.586	1.00	49.48	O
HETATM	7081	O	HOH	1093	43.385	63.603	0.055	1.00	36.62	O
HETATM	7082	O	HOH	1094	42.459	22.766	9.000	1.00	45.67	O
HETATM	7083	O	HOH	1095	39.851	38.770	4.722	1.00	42.05	O
HETATM	7084	O	HOH	1096	27.927	62.542	25.741	1.00	45.07	O
HETATM	7085	O	HOH	1097	26.596	66.480	29.448	1.00	42.63	O
HETATM	7086	O	HOH	1098	80.705	27.320	-7.329	1.00	43.50	O
HETATM	7087	O	HOH	1099	47.391	61.543	41.647	1.00	40.15	O
HETATM	7088	O	HOH	1100	49.163	59.061	39.325	1.00	42.50	O
HETATM	7089	O	HOH	1101	37.723	62.950	9.266	1.00	43.51	O
HETATM	7090	O	HOH	1102	42.520	86.336	26.203	1.00	49.44	O
HETATM	7091	O	HOH	1103	44.505	23.800	1.579	1.00	45.86	O
HETATM	7092	O	HOH	1104	46.627	88.306	7.164	1.00	37.56	O
HETATM	7093	O	HOH	1105	73.060	28.520	-10.355	1.00	48.50	O
HETATM	7094	O	HOH	1106	11.418	72.212	21.577	1.00	50.61	O
HETATM	7095	O	HOH	1107	66.757	20.290	-0.301	1.00	42.88	O
HETATM	7096	O	HOH	1108	73.316	36.174	-1.352	1.00	40.32	O
HETATM	7097	O	HOH	1109	57.133	35.676	-13.886	1.00	43.40	O
HETATM	7098	O	HOH	1110	89.986	29.735	16.416	1.00	49.27	O
HETATM	7099	O	HOH	1111	33.708	63.408	10.630	1.00	46.18	O
HETATM	7100	O	HOH	1112	38.911	70.260	-3.463	1.00	46.09	O
HETATM	7101	O	HOH	1113	42.762	65.664	-2.740	1.00	43.70	O
HETATM	7102	O	HOH	1114	34.657	56.534	21.172	1.00	37.47	O
HETATM	7103	O	HOH	1115	42.540	19.989	12.547	1.00	46.34	O
HETATM	7104	O	HOH	1116	60.339	20.600	-3.277	1.00	43.92	O
HETATM	7105	O	HOH	1117	36.098	74.062	44.276	1.00	46.53	O
HETATM	7106	O	HOH	1118	81.188	40.130	11.020	1.00	36.46	O
HETATM	7107	O	HOH	1119	53.402	63.761	50.757	1.00	47.52	O
HETATM	7108	O	HOH	1120	71.162	69.131	20.303	1.00	43.59	O
HETATM	7109	O	HOH	1121	43.732	7.788	10.755	1.00	44.69	O
HETATM	7110	O	HOH	1122	68.240	59.225	13.989	1.00	44.59	O
HETATM	7111	O	HOH	1123	17.710	55.814	19.118	1.00	37.35	O
HETATM	7112	O	HOH	1124	34.450	56.940	1.618	1.00	42.86	O
HETATM	7113	O	HOH	1125	29.605	82.811	25.595	1.00	45.49	O
HETATM	7114	O	HOH	1126	43.635	78.674	46.819	1.00	44.12	O
HETATM	7115	O	HOH	1127	71.552	60.110	-10.367	1.00	46.00	O
HETATM	7116	O	HOH	1128	53.675	83.677	29.170	1.00	46.16	O
HETATM	7117	O	HOH	1129	79.968	44.910	26.163	1.00	44.77	O
HETATM	7118	O	HOH	1130	63.917	62.138	50.284	1.00	46.62	O
HETATM	7119	O	HOH	1131	51.348	57.617	-15.510	1.00	49.27	O
HETATM	7120	O	HOH	1132	69.091	50.240	-18.945	1.00	45.77	O
HETATM	7121	O	HOH	1133	73.114	17.017	11.159	1.00	45.26	O
HETATM	7122	O	HOH	1134	33.372	59.556	4.951	1.00	49.88	O
HETATM	7123	O	HOH	1135	65.039	49.316	-16.118	1.00	47.78	O
HETATM	7124	O	HOH	1136	56.903	79.340	-1.979	1.00	52.18	O
HETATM	7125	O	HOH	1137	61.154	10.701	16.668	1.00	46.63	O
HETATM	7126	O	HOH	1138	48.529	24.882	-2.984	1.00	46.16	O
HETATM	7127	O	HOH	1139	27.353	70.062	6.425	1.00	41.12	O
HETATM	7128	O	HOH	1140	83.520	37.614	-6.367	1.00	45.23	O



HETATM	7129	O	HOH	1141	45.705	78.639	48.562	1.00	42.61	O		
HETATM	7130	O	HOH	1142	46.460	12.380	4.691	1.00	49.21	O		
HETATM	7131	O	HOH	1143	39.908	78.974	45.027	1.00	48.70	O		
HETATM	7132	O	HOH	1144	29.080	21.298	19.817	1.00	44.43	O		
HETATM	7133	O	HOH	1145	86.451	18.574	10.104	1.00	48.60	O		
HETATM	7134	O	HOH	1146	81.118	20.627	5.694	1.00	42.85	O		
HETATM	7135	O	HOH	1147	83.337	25.279	-1.648	1.00	44.61	O		
HETATM	7136	O	HOH	1148	65.680	34.543	26.278	1.00	39.74	O		
HETATM	7137	O	HOH	1149	47.451	9.592	15.947	1.00	44.94	O		
HETATM	7138	O	HOH	1150	49.030	81.631	47.403	1.00	44.42	O		
HETATM	7139	O	HOH	1151	50.057	7.027	6.737	1.00	45.85	O		
HETATM	7140	O	HOH	1152	73.324	43.111	4.598	1.00	43.85	O		
HETATM	7141	O	HOH	1153	53.116	46.400	25.974	1.00	47.82	O		
HETATM	7142	O	HOH	1154	72.736	45.268	10.352	1.00	42.50	O		
HETATM	7143	O	HOH	1155	51.145	30.958	-8.481	1.00	45.73	O		
HETATM	7144	O	HOH	1156	44.896	64.391	-1.512	1.00	42.80	O		
HETATM	7145	O	HOH	1157	18.789	65.141	23.732	1.00	41.69	O		
HETATM	7146	O	HOH	1158	70.859	62.866	15.269	1.00	38.81	O		
HETATM	7147	O	HOH	1159	47.675	48.444	24.674	1.00	44.65	O		
HETATM	7148	O	HOH	1160	54.935	8.520	14.096	1.00	46.47	O		
HETATM	7149	O	HOH	1161	45.162	19.172	12.740	1.00	50.88	O		
HETATM	7150	O	HOH	1162	58.399	13.920	3.468	1.00	47.39	O		
HETATM	7151	O	HOH	1163	59.753	13.132	7.409	1.00	51.84	O		
HETATM	7152	O	HOH	1164	73.364	46.852	3.559	1.00	45.49	O		
HETATM	7153	O	HOH	1165	41.258	62.876	-6.597	1.00	48.48	O		
HETATM	7154	O	HOH	1166	46.910	81.144	48.476	1.00	48.42	O		
HETATM	7155	O	HOH	1167	30.157	71.463	33.054	1.00	49.71	O		
HETATM	7156	O	HOH	1168	12.333	68.430	8.425	1.00	51.99	O		
HETATM	7157	O	HOH	1169	23.528	83.020	23.579	1.00	49.21	O		
HETATM	7158	O	HOH	1170	63.449	67.828	-3.523	1.00	47.78	O		
HETATM	7159	O	HOH	1171	66.705	44.163	-18.047	1.00	51.66	O		
HETATM	7160	O	HOH	1172	39.075	70.348	47.911	1.00	51.28	O		
HETATM	7161	O	HOH	1173	50.234	26.574	-8.928	1.00	49.98	O		
HETATM	7162	O	HOH	1174	77.261	18.973	5.469	1.00	47.74	O		
HETATM	7163	O	HOH	1175	25.284	80.863	29.260	1.00	48.76	O		
HETATM	7164	O	HOH	1176	33.885	55.348	-0.277	1.00	40.99	O		
HETATM	7165	O	HOH	1177	70.743	34.595	-17.423	1.00	51.29	O		
HETATM	7166	O	HOH	1178	59.656	69.852	-0.851	1.00	49.30	O		
HETATM	7167	O	HOH	1179	68.600	14.783	5.686	1.00	51.16	O		
HETATM	7168	O	HOH	1180	54.393	79.045	43.881	1.00	46.98	O		
HETATM	7169	O	HOH	1181	60.931	80.302	21.628	1.00	48.38	O		
HETATM	7170	O	HOH	1182	54.275	47.821	23.648	1.00	49.36	O		
HETATM	7171	O	HOH	1183	41.133	63.786	-3.946	1.00	52.67	O		
HETATM	7172	O	HOH	1184	29.971	47.764	-5.917	1.00	52.47	O		
HETATM	7173	O	HOH	1185	40.794	15.547	20.035	1.00	47.97	O		
HETATM	7174	O	HOH	1186	74.470	65.578	11.098	1.00	48.97	O		
HETATM	7175	O	HOH	1187	53.924	70.395	-8.766	1.00	48.83	O		
HETATM	7176	O	HOH	1188	77.753	43.351	11.064	1.00	49.61	O		
HETATM	7177	O	HOH	1189	67.486	18.924	-5.021	1.00	48.63	O		
HETATM	7178	O	HOH	1190	31.210	63.536	34.557	1.00	48.27	O		
HETATM	7179	O	HOH	1191	17.780	81.250	21.183	1.00	52.94	O		
HETATM	7180	O	HOH	1192	36.740	52.048	-6.733	1.00	48.77	O		
MASTER	376	0	2	42	24	0	0	6	7178	2	0	66
END												

T O T A L = 3 6 6



```

HEADER      LYASE                      30-JUN-00  1F8M
TITLE       CRYSTAL STRUCTURE OF 3-BROMOPYRUVATE MODIFIED ISOCITRATE
TITLE       2 LYASE (ICL) FROM MYCOBACTERIUM TUBERCULOSIS
COMPND      MOL_ID: 1;
COMPND      2 MOLECULE: ISOCITRATE LYASE;
COMPND      3 CHAIN: A, B, C, D;
COMPND      4 SYNONYM: ICL;
COMPND      5 EC: 4.1.3.1;
COMPND      6 ENGINEERED: YES
SOURCE      MOL_ID: 1;
SOURCE      2 ORGANISM_SCIENTIFIC: MYCOBACTERIUM TUBERCULOSIS;
SOURCE      3 ORGANISM_COMMON: BACTERIA;
SOURCE      4 STRAIN: H37RV;
SOURCE      5 EXPRESSION_SYSTEM: ESCHERICHIA COLI;
SOURCE      6 EXPRESSION_SYSTEM_COMMON: BACTERIA;
SOURCE      7 EXPRESSION_SYSTEM_VECTOR_TYPE: PLASMID;
SOURCE      8 EXPRESSION_SYSTEM_PLASMID: PET30B
KEYWDS      ALPHA-BETA BARREL, HELIX-SWAPPING, CLOSED CONFORMATION,
KEYWDS      2 BROMOPYRUVATE MODIFICATION
EXPDTA      X-RAY DIFFRACTION
AUTHOR      V.SHARMA,S.SHARMA,K.H.ZU BENTRUP,J.D.MCKINNEY,D.G.RUSSELL,
AUTHOR      2 W.R.JACOBS JR.,J.C.SACCHETTINI
REVDAT      1 30-DEC-00 1F8M 0
JRNL        AUTH V.SHARMA,S.SHARMA,K.H.ZU BENTRUP,J.D.MCKINNEY,
JRNL        AUTH 2 D.G.RUSSELL,W.R.JACOBS JR.,J.C.SACCHETTINI
JRNL        TITL STRUCTURE OF ISOCITRATE LYASE, A PERSISTENCE
JRNL        TITL 2 FACTOR OF MYCOBACTERIUM TUBERCULOSIS
JRNL        REF NAT.STRUCT.BIOL. V. 7 663 2000
JRNL        REFN ASTM NSBIEW US ISSN 1072-8368

REMARK      1
REMARK      2
REMARK      3 RESOLUTION. 1.80 ANGSTROMS.
REMARK      3
REMARK      3 REFINEMENT.
REMARK      3 PROGRAM : CNS 1.0
REMARK      3 AUTHORS : BRUNGER,ADAMS,CLORE,DELANO,GROS,GROSSE-
REMARK      3 : KUNSTLEVE,JIANG,KUSZEWSKI,NILGES, PANNU,
REMARK      3 : READ,RICE,SIMONSON,WARREN
REMARK      3
REMARK      3 REFINEMENT TARGET : ENGH & HUBER
REMARK      3
REMARK      3 DATA USED IN REFINEMENT.
REMARK      3 RESOLUTION RANGE HIGH (ANGSTROMS) : 1.80
REMARK      3 RESOLUTION RANGE LOW (ANGSTROMS) : 19.86
REMARK      3 DATA CUTOFF (SIGMA(F)) : 2.000
REMARK      3 OUTLIER CUTOFF HIGH (RMS(ABS(F))) : NULL
REMARK      3 COMPLETENESS (WORKING+TEST) (%) : 87.2
REMARK      3 NUMBER OF REFLECTIONS : 129143
REMARK      3
REMARK      3 FIT TO DATA USED IN REFINEMENT.
REMARK      3 CROSS-VALIDATION METHOD : THROUGHOUT
REMARK      3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK      3 R VALUE (WORKING SET) : 0.203
REMARK      3 FREE R VALUE : 0.247
REMARK      3 FREE R VALUE TEST SET SIZE (%) : 10.000
REMARK      3 FREE R VALUE TEST SET COUNT : 12828
REMARK      3 ESTIMATED ERROR OF FREE R VALUE : 0.002
REMARK      3
REMARK      3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK      3 TOTAL NUMBER OF BINS USED : 6
REMARK      3 BIN RESOLUTION RANGE HIGH (A) : 1.80
REMARK      3 BIN RESOLUTION RANGE LOW (A) : 1.91
REMARK      3 BIN COMPLETENESS (WORKING+TEST) (%) : 86.00
REMARK      3 REFLECTIONS IN BIN (WORKING SET) : 18882
REMARK      3 BIN R VALUE (WORKING SET) : 0.2830
REMARK      3 BIN FREE R VALUE : 0.3380
REMARK      3 BIN FREE R VALUE TEST SET SIZE (%) : 10.10
REMARK      3 BIN FREE R VALUE TEST SET COUNT : 2128
REMARK      3 ESTIMATED ERROR OF BIN FREE R VALUE : 0.007
REMARK      3
REMARK      3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK      3 PROTEIN ATOMS : 13232
REMARK      3 NUCLEIC ACID ATOMS : 0
REMARK      3 HETEROGEN ATOMS : 28
REMARK      3 SOLVENT ATOMS : 1016
REMARK      3
REMARK      3 B VALUES.
REMARK      3 FROM WILSON PLOT (A**2) : 18.20
REMARK      3 MEAN B VALUE (OVERALL, A**2) : 26.10

```



```

REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2) : 6.12000
REMARK 3 B22 (A**2) : -0.08000
REMARK 3 B33 (A**2) : -6.04000
REMARK 3 B12 (A**2) : 0.00000
REMARK 3 B13 (A**2) : 0.00000
REMARK 3 B23 (A**2) : 0.00000
REMARK 3
REMARK 3 ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM LUZZATI PLOT (A) : 0.23
REMARK 3 ESD FROM SIGMAA (A) : 0.210
REMARK 3 LOW RESOLUTION CUTOFF (A) : 5.00
REMARK 3
REMARK 3 CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM C-V LUZZATI PLOT (A) : 0.29
REMARK 3 ESD FROM C-V SIGMAA (A) : 0.27
REMARK 3
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES.
REMARK 3 BOND LENGTHS (A) : 0.013
REMARK 3 BOND ANGLES (DEGREES) : 1.60
REMARK 3 DIHEDRAL ANGLES (DEGREES) : 22.80
REMARK 3 IMPROPER ANGLES (DEGREES) : 1.13
REMARK 3
REMARK 3 ISOTROPIC THERMAL MODEL : RESTRAINED
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. RMS SIGMA
REMARK 3 MAIN-CHAIN BOND (A**2) : 1.23 ; 1.500
REMARK 3 MAIN-CHAIN ANGLE (A**2) : 1.69 ; 2.000
REMARK 3 SIDE-CHAIN BOND (A**2) : 1.87 ; 2.000
REMARK 3 SIDE-CHAIN ANGLE (A**2) : 2.52 ; 2.500
REMARK 3
REMARK 3 BULK SOLVENT MODELING.
REMARK 3 METHOD USED : FLAT MODEL
REMARK 3 KSOL : 0.39
REMARK 3 BSOL : 53.98
REMARK 3
REMARK 3 NCS MODEL : CONSTR
REMARK 3
REMARK 3 NCS RESTRAINTS. RMS SIGMA/WEIGHT
REMARK 3 GROUP 1 POSITIONAL (A) : NULL ; NULL
REMARK 3 GROUP 1 B-FACTOR (A**2) : NULL ; NULL
REMARK 3
REMARK 3 PARAMETER FILE 1 : PROTEIN.REP.PARAM
REMARK 3 PARAMETER FILE 2 : ION.PARAM
REMARK 3 PARAMETER FILE 3 : WATER.REP.PARAM
REMARK 3 TOPOLOGY FILE 1 : PROTEIN.TOP
REMARK 3 TOPOLOGY FILE 2 : ION.TOP
REMARK 3 TOPOLOGY FILE 3 : WATER.TOP
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS: NULL
REMARK 4
REMARK 4 1F8M COMPLIES WITH FORMAT V. 2.3, 09-JULY-1998
REMARK 7
REMARK 7 SIDE CHAIN OF ACTIVE SITE CYS191 HAS BEEN
REMARK 7 PYRUVYLATED USING 3-BROMOPYRUVATE.
REMARK 100
REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY RCSB ON 25-JUL-2000.
REMARK 100 THE RCSB ID CODE IS RCSB011377.
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200 EXPERIMENT TYPE : X-RAY DIFFRACTION
REMARK 200 DATE OF DATA COLLECTION : 14-JUN-2000
REMARK 200 TEMPERATURE (KELVIN) : 100.0
REMARK 200 PH : 8.00
REMARK 200 NUMBER OF CRYSTALS USED : 1
REMARK 200
REMARK 200 SYNCHROTRON (Y/N) : Y
REMARK 200 RADIATION SOURCE : APS
REMARK 200 BEAMLINE : 19ID
REMARK 200 X-RAY GENERATOR MODEL : NULL
REMARK 200 MONOCHROMATIC OR LAUE (M/L) : M
REMARK 200 WAVELENGTH OR RANGE (A) : 1.0089
REMARK 200 MONOCHROMATOR : NULL
REMARK 200 OPTICS : NULL
REMARK 200
REMARK 200 DETECTOR TYPE : CCD
REMARK 200 DETECTOR MANUFACTURER : 3KX3K
REMARK 200 INTENSITY-INTEGRATION SOFTWARE : DENZO
REMARK 200 DATA SCALING SOFTWARE : SCALEPACK

```



REMARK 200  
 REMARK 200 NUMBER OF UNIQUE REFLECTIONS : 142726  
 REMARK 200 RESOLUTION RANGE HIGH (A) : 1.800  
 REMARK 200 RESOLUTION RANGE LOW (A) : 20.000  
 REMARK 200 REJECTION CRITERIA (SIGMA(I)) : -3.000  
 REMARK 200  
 REMARK 200 OVERALL.  
 REMARK 200 COMPLETENESS FOR RANGE (%) : 96.3  
 REMARK 200 DATA REDUNDANCY : 4.840  
 REMARK 200 R MERGE (I) : 0.04600  
 REMARK 200 R SYM (I) : NULL  
 REMARK 200 <I/SIGMA(I)> FOR THE DATA SET : 14.8000  
 REMARK 200  
 REMARK 200 IN THE HIGHEST RESOLUTION SHELL.  
 REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A) : 1.80  
 REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A) : 1.86  
 REMARK 200 COMPLETENESS FOR SHELL (%) : 94.1  
 REMARK 200 DATA REDUNDANCY IN SHELL : 4.80  
 REMARK 200 R MERGE FOR SHELL (I) : 0.27900  
 REMARK 200 R SYM FOR SHELL (I) : NULL  
 REMARK 200 <I/SIGMA(I)> FOR SHELL : NULL  
 REMARK 200  
 REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH  
 REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: NULL  
 REMARK 200 SOFTWARE USED: AMORE  
 REMARK 200 STARTING MODEL: NULL  
 REMARK 200  
 REMARK 200 REMARK: NULL  
 REMARK 280  
 REMARK 280 CRYSTAL  
 REMARK 280 SOLVENT CONTENT, VS (%): NULL  
 REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS\*\*3/DA): NULL  
 REMARK 280  
 REMARK 280 CRYSTALLIZATION CONDITIONS: PEG4000, SODIUM ACETATE,  
 REMARK 280 MAGNESIUM ACETATE, 3-BROMOPYRUVATE  
 REMARK 290  
 REMARK 290 CRYSTALLOGRAPHIC SYMMETRY  
 REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 21 21 21  
 REMARK 290  
 REMARK 290 SYMOP SYMMETRY  
 REMARK 290 NNNMMM OPERATOR  
 REMARK 290 1555 X,Y,Z  
 REMARK 290 2555 1/2-X,-Y,1/2+Z  
 REMARK 290 3555 -X,1/2+Y,1/2-Z  
 REMARK 290 4555 1/2+X,1/2-Y,-Z  
 REMARK 290  
 REMARK 290 WHERE NNN -> OPERATOR NUMBER  
 REMARK 290 MMM -> TRANSLATION VECTOR  
 REMARK 290  
 REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS  
 REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM  
 REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY  
 REMARK 290 RELATED MOLECULES.  
 REMARK 290 SMTRY1 1 1.000000 0.000000 0.000000 0.000000  
 REMARK 290 SMTRY2 1 0.000000 1.000000 0.000000 0.000000  
 REMARK 290 SMTRY3 1 0.000000 0.000000 1.000000 0.000000  
 REMARK 290 SMTRY1 2 -1.000000 0.000000 0.000000 37.15500  
 REMARK 290 SMTRY2 2 0.000000 -1.000000 0.000000 0.000000  
 REMARK 290 SMTRY3 2 0.000000 0.000000 1.000000 83.08250  
 REMARK 290 SMTRY1 3 -1.000000 0.000000 0.000000 0.000000  
 REMARK 290 SMTRY2 3 0.000000 1.000000 0.000000 64.51850  
 REMARK 290 SMTRY3 3 0.000000 0.000000 -1.000000 83.08250  
 REMARK 290 SMTRY1 4 1.000000 0.000000 0.000000 37.15500  
 REMARK 290 SMTRY2 4 0.000000 -1.000000 0.000000 64.51850  
 REMARK 290 SMTRY3 4 0.000000 0.000000 -1.000000 0.000000  
 REMARK 290  
 REMARK 290 REMARK: NULL  
 REMARK 300  
 REMARK 300 BIOMOLECULE: 1  
 REMARK 300 THIS ENTRY CONTAINS THE CRYSTALLOGRAPHIC ASYMMETRIC UNIT  
 REMARK 300 WHICH CONSISTS OF 4 CHAIN(S). SEE REMARK 350 FOR  
 REMARK 300 INFORMATION ON GENERATING THE BIOLOGICAL MOLECULE(S).  
 REMARK 350  
 REMARK 350 GENERATING THE BIOMOLECULE  
 REMARK 350 COORDINATES FOR A COMPLETE MULTIMER REPRESENTING THE KNOWN  
 REMARK 350 BIOLOGICALLY SIGNIFICANT OLIGOMERIZATION STATE OF THE  
 REMARK 350 MOLECULE CAN BE GENERATED BY APPLYING BIOMT TRANSFORMATIONS  
 REMARK 350 GIVEN BELOW. BOTH NON-CRYSTALLOGRAPHIC AND  
 REMARK 350 CRYSTALLOGRAPHIC OPERATIONS ARE GIVEN.  
 REMARK 350



```

REMARK 350 BIOMOLECULE: 1
REMARK 350 APPLY THE FOLLOWING TO CHAINS: A, B, C, D
REMARK 350      BIOMT1  1  1.000000  0.000000  0.000000      0.00000
REMARK 350      BIOMT2  1  0.000000  1.000000  0.000000      0.00000
REMARK 350      BIOMT3  1  0.000000  0.000000  1.000000      0.00000
REMARK 465
REMARK 465 MISSING RESIDUES
REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE
REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 465 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE.)
REMARK 465
REMARK 465      M RES C SSSEQI
REMARK 465      MET A      0
REMARK 465      HIS A    428
REMARK 465      MET B      0
REMARK 465      HIS B    428
REMARK 465      MET C      0
REMARK 465      HIS C    428
REMARK 465      MET D      0
REMARK 465      HIS D    428
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND LENGTHS
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 500 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X,I3,1X,2(A3,1X,A1,I4,A1,1X,A4,3X),F6.3)
REMARK 500
REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991
REMARK 500
REMARK 500      M RES CSSEQI ATM1  RES CSSEQI ATM2  DEVIATION
REMARK 500      MET A 284  CE      MET A 284  SD      -0.094
REMARK 500      MET A 370  SD      MET A 370  CG       0.081
REMARK 500      PRO C 113  CG      PRO C 113  CB       0.087
REMARK 500      MET C 370  CE      MET C 370  SD     -0.099
REMARK 500      MET D  76  CE      MET D  76  SD     -0.086
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND ANGLES
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 500 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X,I3,1X,A3,1X,A1,I4,A1,3(1X,A4,2X),12X,F5.1)
REMARK 500
REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991
REMARK 500
REMARK 500      M RES CSSEQI ATM1  ATM2  ATM3
REMARK 500      THR A 19  N  -  CA  -  C  ANGL. DEV. = 9.8 DEGREES
REMARK 500      GLN A 39  N  -  CA  -  C  ANGL. DEV. = 11.5 DEGREES
REMARK 500      CYS A 191 N  -  CA  -  C  ANGL. DEV. =-10.7 DEGREES
REMARK 500      SER A 315 N  -  CA  -  C  ANGL. DEV. = 12.0 DEGREES
REMARK 500      ASN A 319 N  -  CA  -  C  ANGL. DEV. =-13.1 DEGREES
REMARK 500      ALA A 417 N  -  CA  -  C  ANGL. DEV. = 13.4 DEGREES
REMARK 500      LEU B 90  CA  -  CB  -  CG ANGL. DEV. = 10.9 DEGREES
REMARK 500      PRO B 107 N  -  CA  -  C  ANGL. DEV. =-11.7 DEGREES
REMARK 500      SER B 315 N  -  CA  -  C  ANGL. DEV. = 12.5 DEGREES
REMARK 500      ASN B 319 N  -  CA  -  C  ANGL. DEV. =-12.4 DEGREES
REMARK 500      LYS B 392 N  -  CA  -  C  ANGL. DEV. =-10.0 DEGREES
REMARK 500      ALA B 417 N  -  CA  -  C  ANGL. DEV. = 12.6 DEGREES
REMARK 500      LEU C 90  CA  -  CB  -  CG ANGL. DEV. = 11.7 DEGREES
REMARK 500      PRO C 107 N  -  CA  -  C  ANGL. DEV. =-10.9 DEGREES
REMARK 500      CYS C 191 N  -  CA  -  C  ANGL. DEV. =-10.3 DEGREES
REMARK 500      PRO C 267 C  -  N  -  CA  ANGL. DEV. = -9.7 DEGREES
REMARK 500      SER C 315 N  -  CA  -  C  ANGL. DEV. = 9.9 DEGREES
REMARK 500      ASN C 319 N  -  CA  -  C  ANGL. DEV. =-10.8 DEGREES
REMARK 500      ALA C 417 N  -  CA  -  C  ANGL. DEV. = 13.4 DEGREES
REMARK 500      LEU D 90  CA  -  CB  -  CG ANGL. DEV. = 10.6 DEGREES
REMARK 500      PRO D 107 N  -  CA  -  C  ANGL. DEV. =-11.1 DEGREES
REMARK 500      LEU D 147 CA  -  CB  -  CG ANGL. DEV. =-11.1 DEGREES
REMARK 500      CYS D 191 N  -  CA  -  C  ANGL. DEV. =-11.6 DEGREES
REMARK 500      SER D 315 N  -  CA  -  C  ANGL. DEV. = 10.9 DEGREES
REMARK 500      ASN D 319 N  -  CA  -  C  ANGL. DEV. =-10.9 DEGREES

```



REMARK 500 TRP D 320 N - CA - C ANGL. DEV. = 11.0 DEGREES  
 REMARK 500 GLY D 398 N - CA - C ANGL. DEV. = 10.8 DEGREES  
 REMARK 500 ALA D 417 N - CA - C ANGL. DEV. = 13.9 DEGREES  
 REMARK 525  
 REMARK 525 SOLVENT  
 REMARK 525 THE FOLLOWING SOLVENT MOLECULES LIE FARTHER THAN EXPECTED  
 REMARK 525 FROM THE PROTEIN OR NUCLEIC ACID MOLECULE AND MAY BE  
 REMARK 525 ASSOCIATED WITH A SYMMETRY RELATED MOLECULE (M=MODEL  
 REMARK 525 NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE  
 REMARK 525 NUMBER; I=INSERTION CODE):  
 REMARK 525  
 REMARK 525 M RES CSSEQI  
 REMARK 525 0 HOH 1460 DISTANCE = 6.92 ANGSTROMS  
 REMARK 525 0 HOH 1602 DISTANCE = 8.73 ANGSTROMS  
 REMARK 900  
 REMARK 900 RELATED ENTRIES  
 REMARK 900 RELATED ID: 1F61 RELATED DB: PDB  
 REMARK 900 ICL APOENZYME STRUCTURE  
 REMARK 900 RELATED ID: 1F8I RELATED DB: PDB  
 REMARK 900 STRUCTURE OF ICL WITH 3-NITROPROPIONATE AND GLYOXYLATE  
 REMARK 999  
 REMARK 999 SEQUENCE  
 REMARK 999 AN ALANINE WAS INSERTED AT THE N-TERMINUS  
 REMARK 999 AFTER THE FIRST METHIONINE RESIDUE, MASVV...  
 REMARK 999 MET 0 WAS NOT OBSERVED DUE TO POOR DENSITY OR  
 REMARK 999 PERHAPS IT WAS CLEAVED OFF THE RECOMBINANT  
 REMARK 999 PROTEIN DURING EXPRESSION. THEREFORE, THE  
 REMARK 999 FIRST RESIDUE IN THIS ENTRY IS ALA 1.  
 DBREF 1F8M A 0 428 GB 7436639 G70828 1 428  
 DBREF 1F8M B 0 428 GB 7436639 G70828 1 428  
 DBREF 1F8M C 0 428 GB 7436639 G70828 1 428  
 DBREF 1F8M D 0 428 GB 7436639 G70828 1 428  
 SEQADV 1F8M ALA A 1 GB 7436639 INSERTION  
 SEQADV 1F8M ALA B 1 GB 7436639 INSERTION  
 SEQADV 1F8M ALA C 1 GB 7436639 INSERTION  
 SEQADV 1F8M ALA D 1 GB 7436639 INSERTION  
 SEQRES 1 A 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN  
 SEQRES 2 A 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP  
 SEQRES 3 A 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU  
 SEQRES 4 A 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG  
 SEQRES 5 A 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU  
 SEQRES 6 A 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA  
 SEQRES 7 A 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU  
 SEQRES 8 A 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY  
 SEQRES 9 A 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER  
 SEQRES 10 A 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN  
 SEQRES 11 A 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER  
 SEQRES 12 A 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU  
 SEQRES 13 A 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN  
 SEQRES 14 A 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP  
 SEQRES 15 A 429 GLU ASP GLN LEU ALA SER GLU LYS LYS CYS GLY HIS LEU  
 SEQRES 16 A 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 A 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 A 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 A 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 A 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 A 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 A 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 A 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 A 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 A 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU  
 SEQRES 26 A 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 A 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 A 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR  
 SEQRES 29 A 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 A 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 A 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 A 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 A 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS  
 SEQRES 1 B 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN  
 SEQRES 2 B 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP  
 SEQRES 3 B 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU  
 SEQRES 4 B 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG  
 SEQRES 5 B 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU  
 SEQRES 6 B 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA  
 SEQRES 7 B 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU  
 SEQRES 8 B 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY  
 SEQRES 9 B 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER  
 SEQRES 10 B 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN  
 SEQRES 11 B 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER



SEQRES 12 B 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU  
 SEQRES 13 B 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN  
 SEQRES 14 B 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP  
 SEQRES 15 B 429 GLU ASP GLN LEU ALA SER GLU LYS LYS CYS GLY HIS LEU  
 SEQRES 16 B 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 B 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 B 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 B 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 B 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 B 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 B 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 B 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 B 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 B 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU  
 SEQRES 26 B 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 B 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 B 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR  
 SEQRES 29 B 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 B 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 B 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 B 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 B 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS  
 SEQRES 1 C 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN  
 SEQRES 2 C 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP  
 SEQRES 3 C 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU  
 SEQRES 4 C 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG  
 SEQRES 5 C 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU  
 SEQRES 6 C 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA  
 SEQRES 7 C 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU  
 SEQRES 8 C 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY  
 SEQRES 9 C 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER  
 SEQRES 10 C 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN  
 SEQRES 11 C 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER  
 SEQRES 12 C 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU  
 SEQRES 13 C 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN  
 SEQRES 14 C 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP  
 SEQRES 15 C 429 GLU ASP GLN LEU ALA SER GLU LYS LYS CYS GLY HIS LEU  
 SEQRES 16 C 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 C 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 C 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 C 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 C 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 C 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 C 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 C 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 C 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 C 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU  
 SEQRES 26 C 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 C 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 C 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR  
 SEQRES 29 C 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 C 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 C 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 C 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 C 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS  
 SEQRES 1 D 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN  
 SEQRES 2 D 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP  
 SEQRES 3 D 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU  
 SEQRES 4 D 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG  
 SEQRES 5 D 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU  
 SEQRES 6 D 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA  
 SEQRES 7 D 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU  
 SEQRES 8 D 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY  
 SEQRES 9 D 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER  
 SEQRES 10 D 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN  
 SEQRES 11 D 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER  
 SEQRES 12 D 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU  
 SEQRES 13 D 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN  
 SEQRES 14 D 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP  
 SEQRES 15 D 429 GLU ASP GLN LEU ALA SER GLU LYS LYS CYS GLY HIS LEU  
 SEQRES 16 D 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 D 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 D 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 D 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 D 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 D 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 D 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 D 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 D 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 D 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
1000



SEQRES 26 D 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 D 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 D 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR  
 SEQRES 29 D 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 D 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 D 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 D 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 D 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS

HET MG A 451 1  
 HET MG B 452 1  
 HET MG C 453 1  
 HET MG D 454 1  
 HET PYR A 500 6  
 HET PYR B 500 6  
 HET PYR C 500 6  
 HET PYR D 500 6

HETNAM MG MAGNESIUM ION

HETNAM PYR PYRUVIC ACID

FORMUL 5 MG 4 (MG1 2+)

FORMUL 9 PYR 4 (C3 H4 O3)

FORMUL 13 HOH \*1016 (H2 O1)

HELIX	1	1	SER	A	9	ASN	A	20	1	12
HELIX	2	2	PRO	A	21	LYS	A	24	5	4
HELIX	3	3	SER	A	31	GLN	A	39	1	9
HELIX	4	4	HIS	A	46	LEU	A	63	1	18
HELIX	5	5	THR	A	73	ALA	A	83	1	11
HELIX	6	6	SER	A	91	ALA	A	99	1	9
HELIX	7	7	ASN	A	115	GLY	A	139	1	25
HELIX	8	8	GLY	A	160	ALA	A	174	1	15
HELIX	9	9	LEU	A	185	LYS	A	189	5	5
HELIX	10	10	PRO	A	201	ALA	A	219	1	19
HELIX	11	11	ASP	A	245	PRO	A	247	5	3
HELIX	12	12	GLY	A	264	ALA	A	276	1	13
HELIX	13	13	PRO	A	277	ALA	A	279	5	3
HELIX	14	14	ASP	A	290	ALA	A	303	1	14
HELIX	15	15	ASN	A	319	LEU	A	324	1	6
HELIX	16	16	ASP	A	325	MET	A	339	1	15
HELIX	17	17	LEU	A	348	GLN	A	369	1	22
HELIX	18	18	GLN	A	369	GLU	A	384	1	16
HELIX	19	19	GLU	A	385	GLY	A	387	5	3
HELIX	20	20	LYS	A	392	VAL	A	397	1	6
HELIX	21	21	GLY	A	398	ASP	A	410	1	13
HELIX	22	22	SER	A	421	PHE	A	427	1	7
HELIX	23	23	SER	B	9	ASN	B	20	1	12
HELIX	24	24	PRO	B	21	LYS	B	24	5	4
HELIX	25	25	SER	B	31	GLN	B	39	1	9
HELIX	26	26	HIS	B	46	LEU	B	63	1	18
HELIX	27	27	THR	B	73	ALA	B	83	1	11
HELIX	28	28	SER	B	91	ALA	B	99	1	9
HELIX	29	29	ASN	B	115	GLY	B	139	1	25
HELIX	30	30	GLY	B	160	ALA	B	174	1	15
HELIX	31	31	LEU	B	185	LYS	B	189	5	5
HELIX	32	32	PRO	B	201	ALA	B	219	1	19
HELIX	33	33	ASP	B	245	PRO	B	247	5	3
HELIX	34	34	GLY	B	264	ALA	B	276	1	13
HELIX	35	35	PRO	B	277	ALA	B	279	5	3
HELIX	36	36	ASP	B	290	ALA	B	303	1	14
HELIX	37	37	ASN	B	319	LEU	B	324	1	6
HELIX	38	38	ASP	B	325	MET	B	339	1	15
HELIX	39	39	LEU	B	348	GLN	B	369	1	22
HELIX	40	40	GLN	B	369	GLU	B	384	1	16
HELIX	41	41	GLU	B	385	GLY	B	387	5	3
HELIX	42	42	LYS	B	392	VAL	B	397	1	6
HELIX	43	43	GLY	B	398	ASP	B	410	1	13
HELIX	44	44	SER	B	421	PHE	B	427	1	7
HELIX	45	45	SER	C	9	ASN	C	20	1	12
HELIX	46	46	PRO	C	21	LYS	C	24	5	4
HELIX	47	47	SER	C	31	LEU	C	38	1	8
HELIX	48	48	HIS	C	46	LEU	C	63	1	18
HELIX	49	49	THR	C	73	ALA	C	83	1	11
HELIX	50	50	SER	C	91	ALA	C	99	1	9
HELIX	51	51	ASN	C	115	GLY	C	139	1	25
HELIX	52	52	GLY	C	160	ALA	C	174	1	15
HELIX	53	53	LEU	C	185	LYS	C	189	5	5
HELIX	54	54	PRO	C	201	ALA	C	219	1	19
HELIX	55	55	ASP	C	245	PRO	C	247	5	3
HELIX	56	56	GLY	C	264	ALA	C	276	1	13
HELIX	57	57	PRO	C	277	ALA	C	279	5	3
HELIX	58	58	ASP	C	290	TYR	C	305	1	16
HELIX	59	59	ASN	C	319	LEU	C	324	1	6



[illegible]



CRYST1	74.310	129.037	166.165	90.00	90.00	90.00	P	21	21	21	16
ORIGX1	1.000000	0.000000	0.000000			0.000000					
ORIGX2	0.000000	1.000000	0.000000			0.000000					
ORIGX3	0.000000	0.000000	1.000000			0.000000					
SCALE1	0.013457	0.000000	0.000000			0.000000					
SCALE2	0.000000	0.007750	0.000000			0.000000					
SCALE3	0.000000	0.000000	0.006018			0.000000					
ATOM	1	N	ALA	A	1	35.323	85.687	56.396	1.00	50.69	N
ATOM	2	CA	ALA	A	1	36.135	84.474	56.073	1.00	50.34	C
ATOM	3	C	ALA	A	1	36.929	83.952	57.287	1.00	50.04	C
ATOM	4	O	ALA	A	1	37.221	84.697	58.234	1.00	49.92	O
ATOM	5	CB	ALA	A	1	37.080	84.785	54.911	1.00	50.59	C
ATOM	6	N	SER	A	2	37.275	82.664	57.246	1.00	49.19	N
ATOM	7	CA	SER	A	2	38.010	81.991	58.328	1.00	47.87	C
ATOM	8	C	SER	A	2	38.799	80.862	57.678	1.00	45.54	C
ATOM	9	O	SER	A	2	38.690	80.658	56.470	1.00	46.49	O
ATOM	10	CB	SER	A	2	37.009	81.421	59.364	1.00	49.30	C
ATOM	11	OG	SER	A	2	37.640	80.733	60.443	1.00	50.44	O
ATOM	12	N	VAL	A	3	39.584	80.125	58.460	1.00	42.96	N
ATOM	13	CA	VAL	A	3	40.371	79.017	57.912	1.00	40.03	C
ATOM	14	C	VAL	A	3	39.806	77.665	58.329	1.00	38.21	C
ATOM	15	O	VAL	A	3	40.329	76.612	57.936	1.00	36.60	O
ATOM	16	CB	VAL	A	3	41.850	79.061	58.395	1.00	40.47	C
ATOM	17	CG1	VAL	A	3	42.286	80.515	58.581	1.00	41.82	C
ATOM	18	CG2	VAL	A	3	42.010	78.283	59.700	1.00	40.79	C
ATOM	19	N	VAL	A	4	38.763	77.704	59.153	1.00	36.08	N
ATOM	20	CA	VAL	A	4	38.118	76.496	59.659	1.00	33.50	C
ATOM	21	C	VAL	A	4	37.489	75.768	58.467	1.00	32.58	C
ATOM	22	O	VAL	A	4	36.755	76.374	57.692	1.00	31.74	O
ATOM	23	CB	VAL	A	4	37.007	76.853	60.682	1.00	34.26	C
ATOM	24	CG1	VAL	A	4	36.426	75.569	61.293	1.00	32.26	C
ATOM	25	CG2	VAL	A	4	37.555	77.800	61.756	1.00	31.21	C
ATOM	26	N	GLY	A	5	37.803	74.481	58.322	1.00	32.99	N
ATOM	27	CA	GLY	A	5	37.254	73.690	57.230	1.00	33.66	C
ATOM	28	C	GLY	A	5	37.795	74.022	55.848	1.00	34.37	C
ATOM	29	O	GLY	A	5	37.081	73.879	54.837	1.00	33.68	O
ATOM	30	N	THR	A	6	39.052	74.471	55.794	1.00	33.45	N
ATOM	31	CA	THR	A	6	39.682	74.815	54.523	1.00	32.52	C
ATOM	32	C	THR	A	6	40.028	73.529	53.803	1.00	30.43	C
ATOM	33	O	THR	A	6	40.683	72.660	54.356	1.00	29.38	O
ATOM	34	CB	THR	A	6	40.964	75.648	54.741	1.00	34.26	C
ATOM	35	OG1	THR	A	6	40.592	76.979	55.104	1.00	36.56	O
ATOM	36	CG2	THR	A	6	41.804	75.690	53.479	1.00	33.57	C
ATOM	37	N	PRO	A	7	39.570	73.388	52.553	1.00	31.14	N
ATOM	38	CA	PRO	A	7	39.840	72.180	51.774	1.00	30.94	C
ATOM	39	C	PRO	A	7	41.320	71.941	51.538	1.00	31.62	C
ATOM	40	O	PRO	A	7	42.080	72.896	51.366	1.00	33.60	O
ATOM	41	CB	PRO	A	7	39.053	72.416	50.477	1.00	29.92	C
ATOM	42	CG	PRO	A	7	39.014	73.881	50.347	1.00	31.50	C
ATOM	43	CD	PRO	A	7	38.806	74.375	51.768	1.00	31.95	C
ATOM	44	N	LYS	A	8	41.724	70.675	51.577	1.00	31.42	N
ATOM	45	CA	LYS	A	8	43.107	70.291	51.325	1.00	32.38	C
ATOM	46	C	LYS	A	8	43.391	70.599	49.863	1.00	32.16	C
ATOM	47	O	LYS	A	8	42.474	70.699	49.049	1.00	34.29	O
ATOM	48	CB	LYS	A	8	43.300	68.794	51.536	1.00	32.30	C
ATOM	49	CG	LYS	A	8	43.138	68.307	52.954	1.00	35.40	C
ATOM	50	CD	LYS	A	8	43.189	66.789	52.983	1.00	36.01	C
ATOM	51	CE	LYS	A	8	43.168	66.263	54.414	1.00	37.70	C
ATOM	52	NZ	LYS	A	8	42.993	64.773	54.455	1.00	37.24	N
ATOM	53	N	SER	A	9	44.656	70.744	49.510	1.00	32.25	N
ATOM	54	CA	SER	A	9	45.013	71.014	48.126	1.00	30.76	C
ATOM	55	C	SER	A	9	45.045	69.659	47.441	1.00	29.90	C
ATOM	56	O	SER	A	9	45.138	68.624	48.097	1.00	30.29	O
ATOM	57	CB	SER	A	9	46.416	71.611	48.044	1.00	31.70	C
ATOM	58	OG	SER	A	9	47.349	70.602	48.413	1.00	32.17	O
ATOM	59	N	ALA	A	10	44.963	69.673	46.120	1.00	30.06	N
ATOM	60	CA	ALA	A	10	45.017	68.450	45.333	1.00	30.58	C
ATOM	61	C	ALA	A	10	46.318	67.690	45.628	1.00	30.98	C
ATOM	62	O	ALA	A	10	46.337	66.458	45.660	1.00	30.06	O
ATOM	63	CB	ALA	A	10	44.927	68.803	43.846	1.00	29.61	C
ATOM	64	N	GLU	A	11	47.411	68.425	45.861	1.00	32.10	N
ATOM	65	CA	GLU	A	11	48.695	67.770	46.142	1.00	33.78	C
ATOM	66	C	GLU	A	11	48.655	66.971	47.427	1.00	32.47	C
ATOM	67	O	GLU	A	11	49.138	65.840	47.473	1.00	32.07	O
ATOM	68	CB	GLU	A	11	49.838	68.790	46.232	1.00	37.30	C
ATOM	69	CG	GLU	A	11	49.404	70.236	46.082	1.00	41.75	C
ATOM	70	CD	GLU	A	11	48.903	70.548	44.685	1.00	43.53	C
ATOM	71	OE1	GLU	A	11	49.623	70.253	43.722	1.00	44.00	O
ATOM	72	OE2	GLU	A	11	47.789	71.101	44.546	1.00	47.42	O
ATOM	73	N	Gln	A	12	48.096	67.564	48.482	1.00	32.75	N

T. 0.000000 = 0.000000



ATOM	74	CA	GLN	A	12	47.993	66.843	49.754	1.00	34.04	C
ATOM	75	C	GLN	A	12	47.199	65.557	49.573	1.00	32.43	C
ATOM	76	O	GLN	A	12	47.550	64.525	50.125	1.00	31.50	O
ATOM	77	CB	GLN	A	12	47.296	67.687	50.817	1.00	35.53	C
ATOM	78	CG	GLN	A	12	47.908	69.039	51.049	1.00	37.73	C
ATOM	79	CD	GLN	A	12	47.145	69.831	52.097	1.00	40.26	C
ATOM	80	OE1	GLN	A	12	46.889	69.348	53.207	1.00	41.27	O
ATOM	81	NE2	GLN	A	12	46.778	71.050	51.752	1.00	39.99	N
ATOM	82	N	ILE	A	13	46.107	65.638	48.811	1.00	32.28	N
ATOM	83	CA	ILE	A	13	45.277	64.468	48.566	1.00	30.82	C
ATOM	84	C	ILE	A	13	46.053	63.415	47.782	1.00	30.51	C
ATOM	85	O	ILE	A	13	46.040	62.238	48.112	1.00	30.40	O
ATOM	86	CB	ILE	A	13	43.991	64.853	47.763	1.00	31.23	C
ATOM	87	CG1	ILE	A	13	43.109	65.796	48.597	1.00	31.16	C
ATOM	88	CG2	ILE	A	13	43.240	63.578	47.351	1.00	29.87	C
ATOM	89	CD1	ILE	A	13	41.836	66.286	47.898	1.00	33.02	C
ATOM	90	N	GLN	A	14	46.726	63.846	46.721	1.00	32.83	N
ATOM	91	CA	GLN	A	14	47.491	62.904	45.909	1.00	33.74	C
ATOM	92	C	GLN	A	14	48.494	62.180	46.793	1.00	34.11	C
ATOM	93	O	GLN	A	14	48.625	60.962	46.731	1.00	33.17	O
ATOM	94	CB	GLN	A	14	48.222	63.625	44.772	1.00	34.39	C
ATOM	95	CG	GLN	A	14	48.918	62.662	43.809	1.00	34.57	C
ATOM	96	CD	GLN	A	14	47.923	61.804	43.044	1.00	34.84	C
ATOM	97	OE1	GLN	A	14	47.138	62.324	42.266	1.00	36.57	O
ATOM	98	NE2	GLN	A	14	47.946	60.494	43.274	1.00	33.04	N
ATOM	99	N	GLN	A	15	49.189	62.955	47.623	1.00	35.36	N
ATOM	100	CA	GLN	A	15	50.175	62.416	48.552	1.00	36.27	C
ATOM	101	C	GLN	A	15	49.616	61.269	49.392	1.00	35.96	C
ATOM	102	O	GLN	A	15	50.263	60.241	49.541	1.00	36.36	O
ATOM	103	CB	GLN	A	15	50.676	63.520	49.491	1.00	37.62	C
ATOM	104	CG	GLN	A	15	51.460	62.982	50.696	1.00	40.83	C
ATOM	105	CD	GLN	A	15	52.956	62.818	50.435	1.00	42.86	C
ATOM	106	OE1	GLN	A	15	53.396	62.698	49.284	1.00	42.58	O
ATOM	107	NE2	GLN	A	15	53.742	62.796	51.513	1.00	42.19	N
ATOM	108	N	GLU	A	16	48.421	61.450	49.955	1.00	36.28	N
ATOM	109	CA	GLU	A	16	47.805	60.402	50.757	1.00	36.45	C
ATOM	110	C	GLU	A	16	47.513	59.180	49.895	1.00	35.36	C
ATOM	111	O	GLU	A	16	47.787	58.048	50.291	1.00	35.53	O
ATOM	112	CB	GLU	A	16	46.495	60.896	51.380	1.00	38.43	C
ATOM	113	CG	GLU	A	16	46.647	62.025	52.373	1.00	42.59	C
ATOM	114	CD	GLU	A	16	45.298	62.574	52.834	1.00	44.66	C
ATOM	115	OE1	GLU	A	16	44.474	61.780	53.355	1.00	47.47	O
ATOM	116	OE2	GLU	A	16	45.058	63.793	52.675	1.00	45.28	O
ATOM	117	N	TRP	A	17	46.938	59.414	48.718	1.00	35.70	N
ATOM	118	CA	TRP	A	17	46.626	58.314	47.810	1.00	35.95	C
ATOM	119	C	TRP	A	17	47.927	57.609	47.469	1.00	36.26	C
ATOM	120	O	TRP	A	17	48.030	56.378	47.513	1.00	36.23	O
ATOM	121	CB	TRP	A	17	45.975	58.841	46.525	1.00	34.73	C
ATOM	122	CG	TRP	A	17	44.586	59.386	46.696	1.00	34.61	C
ATOM	123	CD1	TRP	A	17	43.823	59.366	47.832	1.00	35.23	C
ATOM	124	CD2	TRP	A	17	43.788	60.015	45.690	1.00	34.80	C
ATOM	125	NE1	TRP	A	17	42.603	59.945	47.598	1.00	35.17	N
ATOM	126	CE2	TRP	A	17	42.552	60.352	46.289	1.00	35.81	C
ATOM	127	CE3	TRP	A	17	43.997	60.326	44.337	1.00	33.61	C
ATOM	128	CZ2	TRP	A	17	41.529	60.985	45.582	1.00	34.68	C
ATOM	129	CZ3	TRP	A	17	42.996	60.950	43.637	1.00	34.80	C
ATOM	130	CH2	TRP	A	17	41.766	61.279	44.259	1.00	35.68	C
ATOM	131	N	ASP	A	18	48.937	58.410	47.163	1.00	37.48	N
ATOM	132	CA	ASP	A	18	50.235	57.858	46.813	1.00	38.68	C
ATOM	133	C	ASP	A	18	50.973	57.159	47.960	1.00	38.53	C
ATOM	134	O	ASP	A	18	51.698	56.207	47.714	1.00	38.87	O
ATOM	135	CB	ASP	A	18	51.149	58.955	46.255	1.00	39.66	C
ATOM	136	CG	ASP	A	18	50.746	59.424	44.862	1.00	41.51	C
ATOM	137	OD1	ASP	A	18	50.148	58.631	44.105	1.00	43.13	O
ATOM	138	OD2	ASP	A	18	51.045	60.597	44.527	1.00	41.22	O
ATOM	139	N	THR	A	19	50.782	57.598	49.206	1.00	38.08	N
ATOM	140	CA	THR	A	19	51.548	57.006	50.305	1.00	37.27	C
ATOM	141	C	THR	A	19	50.848	56.289	51.455	1.00	36.82	C
ATOM	142	O	THR	A	19	51.496	55.570	52.222	1.00	35.96	O
ATOM	143	CB	THR	A	19	52.545	58.064	50.897	1.00	37.14	C
ATOM	144	OG1	THR	A	19	51.841	59.198	51.407	1.00	37.37	O
ATOM	145	CG2	THR	A	19	53.479	58.555	49.820	1.00	37.80	C
ATOM	146	N	ASN	A	20	49.542	56.467	51.611	1.00	36.05	N
ATOM	147	CA	ASN	A	20	48.859	55.762	52.689	1.00	34.89	C
ATOM	148	C	ASN	A	20	48.523	54.350	52.195	1.00	34.33	C
ATOM	149	O	ASN	A	20	47.872	54.175	51.168	1.00	34.74	O
ATOM	150	CB	ASN	A	20	47.577	56.499	53.076	1.00	34.93	C
ATOM	151	CG	ASN	A	20	46.906	55.907	54.284	1.00	34.26	C
ATOM	152	OD1	ASN	A	20	46.998	54.708	54.568	1.00	33.54	O
ATOM	153	ND2	ASN	A	20	46.193	56.758	55.007	1.00	37.22	N



ATOM	154	N	PRO	A	21	48.982	53.325	52.918	1.00	34.40	N
ATOM	155	CA	PRO	A	21	48.736	51.933	52.559	1.00	34.61	C
ATOM	156	C	PRO	A	21	47.245	51.654	52.427	1.00	34.53	C
ATOM	157	O	PRO	A	21	46.850	50.653	51.816	1.00	34.68	O
ATOM	158	CB	PRO	A	21	49.357	51.166	53.727	1.00	34.81	C
ATOM	159	CG	PRO	A	21	50.450	52.031	54.146	1.00	33.84	C
ATOM	160	CD	PRO	A	21	49.798	53.385	54.140	1.00	34.89	C
ATOM	161	N	ARG	A	22	46.423	52.515	53.027	1.00	32.68	N
ATOM	162	CA	ARG	A	22	44.975	52.326	52.943	1.00	32.40	C
ATOM	163	C	ARG	A	22	44.521	52.294	51.485	1.00	31.67	C
ATOM	164	O	ARG	A	22	43.592	51.579	51.149	1.00	31.37	O
ATOM	165	CB	ARG	A	22	44.218	53.458	53.647	1.00	32.97	C
ATOM	166	CG	ARG	A	22	42.684	53.446	53.377	1.00	31.54	C
ATOM	167	CD	ARG	A	22	42.023	52.195	53.979	1.00	29.53	C
ATOM	168	NE	ARG	A	22	40.554	52.242	53.864	1.00	28.39	N
ATOM	169	CZ	ARG	A	22	39.888	52.049	52.730	1.00	29.26	C
ATOM	170	NH1	ARG	A	22	40.558	51.793	51.625	1.00	27.13	N
ATOM	171	NH2	ARG	A	22	38.551	52.103	52.696	1.00	27.99	N
ATOM	172	N	TRP	A	23	45.173	53.085	50.640	1.00	31.22	N
ATOM	173	CA	TRP	A	23	44.829	53.161	49.236	1.00	31.95	C
ATOM	174	C	TRP	A	23	45.714	52.295	48.353	1.00	33.82	C
ATOM	175	O	TRP	A	23	45.727	52.455	47.131	1.00	33.54	O
ATOM	176	CB	TRP	A	23	44.922	54.602	48.786	1.00	30.75	C
ATOM	177	CG	TRP	A	23	44.205	55.501	49.696	1.00	30.93	C
ATOM	178	CD1	TRP	A	23	44.710	56.570	50.372	1.00	30.17	C
ATOM	179	CD2	TRP	A	23	42.819	55.417	50.039	1.00	30.97	C
ATOM	180	NE1	TRP	A	23	43.719	57.166	51.120	1.00	32.25	N
ATOM	181	CE2	TRP	A	23	42.547	56.477	50.932	1.00	31.39	C
ATOM	182	CE3	TRP	A	23	41.781	54.547	49.674	1.00	31.35	C
ATOM	183	CZ2	TRP	A	23	41.270	56.696	51.472	1.00	30.96	C
ATOM	184	CZ3	TRP	A	23	40.503	54.763	50.216	1.00	31.94	C
ATOM	185	CH2	TRP	A	23	40.268	55.829	51.103	1.00	31.53	C
ATOM	186	N	LYS	A	24	46.424	51.361	48.975	1.00	36.83	N
ATOM	187	CA	LYS	A	24	47.332	50.483	48.250	1.00	38.10	C
ATOM	188	C	LYS	A	24	46.692	49.901	47.004	1.00	39.10	C
ATOM	189	O	LYS	A	24	47.157	50.153	45.891	1.00	40.14	O
ATOM	190	CB	LYS	A	24	47.824	49.345	49.149	1.00	39.75	C
ATOM	191	CG	LYS	A	24	48.914	48.490	48.518	1.00	42.34	C
ATOM	192	CD	LYS	A	24	49.223	47.241	49.340	1.00	44.96	C
ATOM	193	CE	LYS	A	24	47.963	46.401	49.539	1.00	45.22	C
ATOM	194	NZ	LYS	A	24	48.200	45.010	50.057	1.00	47.22	N
ATOM	195	N	ASP	A	25	45.612	49.147	47.169	1.00	38.62	N
ATOM	196	CA	ASP	A	25	44.982	48.520	46.010	1.00	38.66	C
ATOM	197	C	ASP	A	25	43.721	49.169	45.497	1.00	37.62	C
ATOM	198	O	ASP	A	25	42.836	48.470	44.996	1.00	38.81	O
ATOM	199	CB	ASP	A	25	44.688	47.077	46.347	1.00	40.75	C
ATOM	200	CG	ASP	A	25	45.876	46.402	46.935	1.00	42.73	C
ATOM	201	OD1	ASP	A	25	46.909	46.382	46.238	1.00	44.02	O
ATOM	202	OD2	ASP	A	25	45.779	45.914	48.085	1.00	43.93	O
ATOM	203	N	VAL	A	26	43.655	50.492	45.577	1.00	34.40	N
ATOM	204	CA	VAL	A	26	42.466	51.201	45.166	1.00	33.42	C
ATOM	205	C	VAL	A	26	42.652	51.995	43.908	1.00	31.61	C
ATOM	206	O	VAL	A	26	43.479	52.878	43.852	1.00	31.85	O
ATOM	207	CB	VAL	A	26	41.975	52.143	46.313	1.00	32.04	C
ATOM	208	CG1	VAL	A	26	40.785	53.001	45.854	1.00	30.20	C
ATOM	209	CG2	VAL	A	26	41.597	51.307	47.519	1.00	31.54	C
ATOM	210	N	THR	A	27	41.869	51.670	42.889	1.00	31.49	N
ATOM	211	CA	THR	A	27	41.934	52.387	41.628	1.00	30.98	C
ATOM	212	C	THR	A	27	40.874	53.496	41.622	1.00	31.21	C
ATOM	213	O	THR	A	27	39.701	53.257	41.968	1.00	29.16	O
ATOM	214	CB	THR	A	27	41.642	51.437	40.417	1.00	32.38	C
ATOM	215	OG1	THR	A	27	42.700	50.485	40.261	1.00	34.63	O
ATOM	216	CG2	THR	A	27	41.479	52.230	39.132	1.00	33.04	C
ATOM	217	N	ARG	A	28	41.300	54.699	41.259	1.00	29.85	N
ATOM	218	CA	ARG	A	28	40.398	55.841	41.125	1.00	30.35	C
ATOM	219	C	ARG	A	28	40.498	56.320	39.676	1.00	31.83	C
ATOM	220	O	ARG	A	28	41.559	56.788	39.235	1.00	31.17	O
ATOM	221	CB	ARG	A	28	40.792	57.010	42.039	1.00	30.52	C
ATOM	222	CG	ARG	A	28	40.661	56.736	43.533	1.00	29.21	C
ATOM	223	CD	ARG	A	28	40.896	58.030	44.270	1.00	30.52	C
ATOM	224	NE	ARG	A	28	40.464	58.013	45.662	1.00	29.84	N
ATOM	225	CZ	ARG	A	28	41.045	57.304	46.628	1.00	30.88	C
ATOM	226	NH1	ARG	A	28	42.083	56.534	46.358	1.00	29.94	N
ATOM	227	NH2	ARG	A	28	40.609	57.406	47.883	1.00	28.27	N
ATOM	228	N	THR	A	29	39.403	56.237	38.925	1.00	30.48	N
ATOM	229	CA	THR	A	29	39.455	56.687	37.549	1.00	30.60	C
ATOM	230	C	THR	A	29	39.299	58.196	37.388	1.00	30.79	C
ATOM	231	O	THR	A	29	39.236	58.703	36.268	1.00	32.42	O
ATOM	232	CB	THR	A	29	38.418	55.953	36.681	1.00	31.45	C
ATOM	233	OG1	THR	A	29	37.097	56.187	37.198	1.00	30.30	O



6-12/7

ATOM	234	CG2	THR	A	29	38.733	54.433	36.673	1.00	28.79	C
ATOM	235	N	TYR	A	30	39.231	58.924	38.496	1.00	29.94	N
ATOM	236	CA	TYR	A	30	39.140	60.378	38.433	1.00	29.05	C
ATOM	237	C	TYR	A	30	40.413	60.865	39.125	1.00	28.87	C
ATOM	238	O	TYR	A	30	41.135	60.056	39.707	1.00	26.80	O
ATOM	239	CB	TYR	A	30	37.893	60.900	39.154	1.00	29.70	C
ATOM	240	CG	TYR	A	30	37.621	60.230	40.471	1.00	29.74	C
ATOM	241	CD1	TYR	A	30	38.273	60.642	41.639	1.00	29.85	C
ATOM	242	CD2	TYR	A	30	36.724	59.167	40.561	1.00	29.51	C
ATOM	243	CE1	TYR	A	30	38.031	60.012	42.869	1.00	27.87	C
ATOM	244	CE2	TYR	A	30	36.485	58.519	41.794	1.00	29.11	C
ATOM	245	CZ	TYR	A	30	37.140	58.958	42.943	1.00	28.42	C
ATOM	246	OH	TYR	A	30	36.863	58.387	44.162	1.00	27.79	O
ATOM	247	N	SER	A	31	40.670	62.166	39.079	1.00	28.88	N
ATOM	248	CA	SER	A	31	41.901	62.710	39.666	1.00	28.88	C
ATOM	249	C	SER	A	31	41.678	63.482	40.949	1.00	30.06	C
ATOM	250	O	SER	A	31	40.554	63.913	41.233	1.00	31.02	O
ATOM	251	CB	SER	A	31	42.524	63.669	38.699	1.00	27.17	C
ATOM	252	OG	SER	A	31	41.668	64.785	38.594	1.00	30.36	O
ATOM	253	N	ALA	A	32	42.768	63.700	41.688	1.00	29.06	N
ATOM	254	CA	ALA	A	32	42.715	64.465	42.931	1.00	29.83	C
ATOM	255	C	ALA	A	32	42.132	65.833	42.639	1.00	30.34	C
ATOM	256	O	ALA	A	32	41.351	66.354	43.438	1.00	31.65	O
ATOM	257	CB	ALA	A	32	44.137	64.615	43.544	1.00	30.49	C
ATOM	258	N	GLU	A	33	42.504	66.442	41.507	1.00	29.57	N
ATOM	259	CA	GLU	A	33	41.952	67.756	41.186	1.00	29.57	C
ATOM	260	C	GLU	A	33	40.431	67.691	40.957	1.00	29.82	C
ATOM	261	O	GLU	A	33	39.715	68.684	41.197	1.00	31.74	O
ATOM	262	CB	GLU	A	33	42.609	68.369	39.933	1.00	33.38	C
ATOM	263	CG	GLU	A	33	44.068	68.795	40.076	1.00	36.04	C
ATOM	264	CD	GLU	A	33	45.028	67.636	39.879	1.00	40.71	C
ATOM	265	OE1	GLU	A	33	44.556	66.510	39.601	1.00	42.08	O
ATOM	266	OE2	GLU	A	33	46.261	67.849	39.997	1.00	43.29	O
ATOM	267	N	ASP	A	34	39.937	66.552	40.480	1.00	28.71	N
ATOM	268	CA	ASP	A	34	38.496	66.423	40.233	1.00	28.85	C
ATOM	269	C	ASP	A	34	37.759	66.507	41.572	1.00	27.97	C
ATOM	270	O	ASP	A	34	36.685	67.124	41.673	1.00	28.29	O
ATOM	271	CB	ASP	A	34	38.184	65.101	39.507	1.00	30.17	C
ATOM	272	CG	ASP	A	34	38.612	65.138	38.039	1.00	29.73	C
ATOM	273	OD1	ASP	A	34	38.588	66.260	37.470	1.00	29.34	O
ATOM	274	OD2	ASP	A	34	38.952	64.078	37.472	1.00	27.95	O
ATOM	275	N	VAL	A	35	38.367	65.909	42.594	1.00	27.50	N
ATOM	276	CA	VAL	A	35	37.817	65.914	43.954	1.00	25.65	C
ATOM	277	C	VAL	A	35	37.727	67.353	44.471	1.00	26.83	C
ATOM	278	O	VAL	A	35	36.639	67.836	44.857	1.00	25.65	O
ATOM	279	CB	VAL	A	35	38.700	65.038	44.885	1.00	24.18	C
ATOM	280	CG1	VAL	A	35	38.126	64.999	46.305	1.00	24.09	C
ATOM	281	CG2	VAL	A	35	38.790	63.612	44.330	1.00	25.67	C
ATOM	282	N	VAL	A	36	38.849	68.079	44.420	1.00	24.86	N
ATOM	283	CA	VAL	A	36	38.860	69.447	44.897	1.00	25.54	C
ATOM	284	C	VAL	A	36	37.825	70.338	44.203	1.00	25.50	C
ATOM	285	O	VAL	A	36	37.263	71.254	44.809	1.00	26.98	O
ATOM	286	CB	VAL	A	36	40.246	70.134	44.667	1.00	27.01	C
ATOM	287	CG1	VAL	A	36	40.161	71.597	45.112	1.00	25.93	C
ATOM	288	CG2	VAL	A	36	41.332	69.397	45.418	1.00	23.26	C
ATOM	289	N	ALA	A	37	37.628	70.106	42.909	1.00	25.20	N
ATOM	290	CA	ALA	A	37	36.690	70.896	42.129	1.00	24.90	C
ATOM	291	C	ALA	A	37	35.273	70.866	42.716	1.00	23.97	C
ATOM	292	O	ALA	A	37	34.524	71.855	42.671	1.00	26.41	O
ATOM	293	CB	ALA	A	37	36.666	70.359	40.690	1.00	25.41	C
ATOM	294	N	LEU	A	38	34.930	69.732	43.290	1.00	24.64	N
ATOM	295	CA	LEU	A	38	33.592	69.534	43.843	1.00	25.83	C
ATOM	296	C	LEU	A	38	33.383	69.963	45.296	1.00	26.28	C
ATOM	297	O	LEU	A	38	32.243	69.991	45.776	1.00	27.60	O
ATOM	298	CB	LEU	A	38	33.221	68.061	43.660	1.00	24.07	C
ATOM	299	CG	LEU	A	38	33.183	67.592	42.194	1.00	23.09	C
ATOM	300	CD1	LEU	A	38	33.225	66.087	42.109	1.00	21.53	C
ATOM	301	CD2	LEU	A	38	31.965	68.179	41.465	1.00	23.04	C
ATOM	302	N	GLN	A	39	34.457	70.367	45.974	1.00	27.07	N
ATOM	303	CA	GLN	A	39	34.385	70.740	47.394	1.00	26.40	C
ATOM	304	C	GLN	A	39	34.005	72.120	47.853	1.00	26.12	C
ATOM	305	O	GLN	A	39	33.907	72.356	49.053	1.00	26.81	O
ATOM	306	CB	GLN	A	39	35.698	70.380	48.072	1.00	25.38	C
ATOM	307	CG	GLN	A	39	35.988	68.915	47.996	1.00	26.79	C
ATOM	308	CD	GLN	A	39	37.319	68.529	48.618	1.00	29.80	C
ATOM	309	OE1	GLN	A	39	38.359	69.180	48.357	1.00	31.39	O
ATOM	310	NE2	GLN	A	39	37.309	67.452	49.434	1.00	25.47	N
ATOM	311	N	GLY	A	40	33.784	73.044	46.942	1.00	26.27	N
ATOM	312	CA	GLY	A	40	33.447	74.379	47.376	1.00	28.72	C
ATOM	313	C	GLY	A	40	34.608	74.939	48.182	1.00	28.91	C



ATOM	314	O	GLY	A	40	35.733	74.444	48.075	1.00	30.45	O
ATOM	315	N	SER	A	41	34.350	75.938	49.012	1.00	29.29	N
ATOM	316	CA	SER	A	41	35.454	76.519	49.775	1.00	29.55	C
ATOM	317	C	SER	A	41	35.529	76.103	51.233	1.00	30.14	C
ATOM	318	O	SER	A	41	36.390	76.592	51.968	1.00	30.14	O
ATOM	319	CB	SER	A	41	35.437	78.043	49.629	1.00	29.53	C
ATOM	320	OG	SER	A	41	34.204	78.616	50.026	1.00	32.78	O
ATOM	321	N	VAL	A	42	34.662	75.170	51.646	1.00	29.15	N
ATOM	322	CA	VAL	A	42	34.617	74.660	53.027	1.00	28.69	C
ATOM	323	C	VAL	A	42	34.265	73.169	53.036	1.00	28.54	C
ATOM	324	O	VAL	A	42	33.281	72.775	52.409	1.00	29.76	O
ATOM	325	CB	VAL	A	42	33.533	75.388	53.853	1.00	29.08	C
ATOM	326	CG1	VAL	A	42	33.528	74.872	55.283	1.00	30.82	C
ATOM	327	CG2	VAL	A	42	33.789	76.900	53.865	1.00	31.68	C
ATOM	328	N	VAL	A	43	35.063	72.349	53.722	1.00	26.94	N
ATOM	329	CA	VAL	A	43	34.824	70.908	53.832	1.00	26.09	C
ATOM	330	C	VAL	A	43	34.475	70.516	55.268	1.00	25.66	C
ATOM	331	O	VAL	A	43	35.297	70.622	56.174	1.00	25.50	O
ATOM	332	CB	VAL	A	43	36.066	70.085	53.397	1.00	26.38	C
ATOM	333	CG1	VAL	A	43	35.864	68.598	53.711	1.00	24.72	C
ATOM	334	CG2	VAL	A	43	36.315	70.282	51.886	1.00	25.53	C
ATOM	335	N	GLU	A	44	33.259	70.024	55.482	1.00	25.58	N
ATOM	336	CA	GLU	A	44	32.843	69.630	56.831	1.00	24.52	C
ATOM	337	C	GLU	A	44	33.642	68.417	57.318	1.00	24.36	C
ATOM	338	O	GLU	A	44	33.969	67.515	56.552	1.00	25.77	O
ATOM	339	CB	GLU	A	44	31.314	69.306	56.849	1.00	22.85	C
ATOM	340	CG	GLU	A	44	30.404	70.552	56.648	1.00	21.55	C
ATOM	341	CD	GLU	A	44	28.908	70.194	56.750	1.00	23.31	C
ATOM	342	OE1	GLU	A	44	28.354	69.645	55.768	1.00	23.51	O
ATOM	343	OE2	GLU	A	44	28.300	70.420	57.822	1.00	21.45	O
ATOM	344	N	GLU	A	45	33.968	68.395	58.602	1.00	23.41	N
ATOM	345	CA	GLU	A	45	34.686	67.255	59.165	1.00	23.68	C
ATOM	346	C	GLU	A	45	33.590	66.275	59.580	1.00	24.42	C
ATOM	347	O	GLU	A	45	32.574	66.702	60.128	1.00	24.84	O
ATOM	348	CB	GLU	A	45	35.468	67.700	60.411	1.00	25.82	C
ATOM	349	CG	GLU	A	45	36.032	66.578	61.268	1.00	27.18	C
ATOM	350	CD	GLU	A	45	37.027	65.734	60.517	1.00	31.33	C
ATOM	351	OE1	GLU	A	45	37.454	66.172	59.429	1.00	35.02	O
ATOM	352	OE2	GLU	A	45	37.386	64.643	60.999	1.00	32.57	O
ATOM	353	N	HIS	A	46	33.788	64.992	59.300	1.00	24.05	N
ATOM	354	CA	HIS	A	46	32.845	63.942	59.687	1.00	23.70	C
ATOM	355	C	HIS	A	46	33.587	63.006	60.627	1.00	22.62	C
ATOM	356	O	HIS	A	46	34.022	61.899	60.267	1.00	24.07	O
ATOM	357	CB	HIS	A	46	32.311	63.167	58.460	1.00	22.87	C
ATOM	358	CG	HIS	A	46	31.625	64.049	57.472	1.00	23.00	C
ATOM	359	ND1	HIS	A	46	30.445	64.697	57.759	1.00	21.60	N
ATOM	360	CD2	HIS	A	46	31.981	64.446	56.225	1.00	22.05	C
ATOM	361	CE1	HIS	A	46	30.097	65.452	56.731	1.00	22.43	C
ATOM	362	NE2	HIS	A	46	31.012	65.317	55.786	1.00	23.15	N
ATOM	363	N	THR	A	47	33.706	63.465	61.867	1.00	22.19	N
ATOM	364	CA	THR	A	47	34.415	62.724	62.870	1.00	20.43	C
ATOM	365	C	THR	A	47	34.033	61.264	62.961	1.00	21.37	C
ATOM	366	O	THR	A	47	34.900	60.405	62.819	1.00	20.37	O
ATOM	367	CB	THR	A	47	34.257	63.413	64.270	1.00	20.25	C
ATOM	368	OG1	THR	A	47	34.606	64.793	64.150	1.00	21.79	O
ATOM	369	CG2	THR	A	47	35.142	62.760	65.330	1.00	22.69	C
ATOM	370	N	LEU	A	48	32.746	60.947	63.149	1.00	19.39	N
ATOM	371	CA	LEU	A	48	32.427	59.550	63.295	1.00	18.15	C
ATOM	372	C	LEU	A	48	32.691	58.710	62.031	1.00	17.13	C
ATOM	373	O	LEU	A	48	33.127	57.564	62.127	1.00	19.61	O
ATOM	374	CB	LEU	A	48	30.974	59.364	63.818	1.00	19.26	C
ATOM	375	CG	LEU	A	48	30.636	59.937	65.213	1.00	19.88	C
ATOM	376	CD1	LEU	A	48	29.217	59.536	65.609	1.00	20.90	C
ATOM	377	CD2	LEU	A	48	31.654	59.421	66.268	1.00	21.09	C
ATOM	378	N	ALA	A	49	32.410	59.255	60.864	1.00	18.45	N
ATOM	379	CA	ALA	A	49	32.661	58.527	59.615	1.00	18.91	C
ATOM	380	C	ALA	A	49	34.172	58.214	59.522	1.00	21.51	C
ATOM	381	O	ALA	A	49	34.571	57.101	59.142	1.00	23.28	O
ATOM	382	CB	ALA	A	49	32.254	59.379	58.461	1.00	17.71	C
ATOM	383	N	ARG	A	50	34.994	59.199	59.872	1.00	22.10	N
ATOM	384	CA	ARG	A	50	36.451	59.025	59.801	1.00	24.46	C
ATOM	385	C	ARG	A	50	36.921	58.000	60.804	1.00	23.69	C
ATOM	386	O	ARG	A	50	37.585	57.033	60.472	1.00	25.35	O
ATOM	387	CB	ARG	A	50	37.166	60.363	60.061	1.00	24.86	C
ATOM	388	CG	ARG	A	50	38.705	60.274	59.896	1.00	26.30	C
ATOM	389	CD	ARG	A	50	39.411	61.578	60.180	1.00	24.02	C
ATOM	390	NE	ARG	A	50	38.865	62.719	59.440	1.00	26.13	N
ATOM	391	CZ	ARG	A	50	38.903	62.853	58.116	1.00	22.75	C
ATOM	392	NH1	ARG	A	50	39.463	61.916	57.378	1.00	26.31	N
ATOM	393	NH2	ARG	A	50	38.407	63.933	57.539	1.00	25.45	N



ATOM	394	N	ARG	A	51	36.528	58.182	62.052	1.00	24.31	N
ATOM	395	CA	ARG	A	51	36.964	57.274	63.091	1.00	24.35	C
ATOM	396	C	ARG	A	51	36.432	55.879	62.867	1.00	23.55	C
ATOM	397	O	ARG	A	51	37.133	54.908	63.102	1.00	22.26	O
ATOM	398	CB	ARG	A	51	36.504	57.785	64.477	1.00	23.86	C
ATOM	399	CG	ARG	A	51	37.015	56.974	65.640	1.00	26.88	C
ATOM	400	CD	ARG	A	51	36.457	57.545	66.941	1.00	27.27	C
ATOM	401	NE	ARG	A	51	37.083	57.021	68.159	1.00	29.32	N
ATOM	402	CZ	ARG	A	51	36.821	55.853	68.737	1.00	30.33	C
ATOM	403	NH1	ARG	A	51	35.939	54.998	68.221	1.00	30.94	N
ATOM	404	NH2	ARG	A	51	37.400	55.563	69.901	1.00	32.78	N
ATOM	405	N	GLY	A	52	35.173	55.768	62.437	1.00	21.27	N
ATOM	406	CA	GLY	A	52	34.632	54.440	62.228	1.00	22.32	C
ATOM	407	C	GLY	A	52	35.314	53.707	61.086	1.00	21.69	C
ATOM	408	O	GLY	A	52	35.544	52.511	61.179	1.00	21.27	O
ATOM	409	N	ALA	A	53	35.629	54.430	60.017	1.00	23.87	N
ATOM	410	CA	ALA	A	53	36.281	53.841	58.849	1.00	23.58	C
ATOM	411	C	ALA	A	53	37.696	53.409	59.220	1.00	24.80	C
ATOM	412	O	ALA	A	53	38.138	52.330	58.816	1.00	23.32	O
ATOM	413	CB	ALA	A	53	36.340	54.825	57.705	1.00	21.91	C
ATOM	414	N	GLU	A	54	38.390	54.257	59.979	1.00	26.12	N
ATOM	415	CA	GLU	A	54	39.762	53.955	60.416	1.00	26.53	C
ATOM	416	C	GLU	A	54	39.785	52.727	61.299	1.00	25.84	C
ATOM	417	O	GLU	A	54	40.582	51.814	61.072	1.00	25.68	O
ATOM	418	CB	GLU	A	54	40.378	55.179	61.119	1.00	27.30	C
ATOM	419	CG	GLU	A	54	40.875	56.230	60.122	1.00	27.84	C
ATOM	420	CD	GLU	A	54	41.431	57.499	60.762	1.00	31.19	C
ATOM	421	OE1	GLU	A	54	41.657	57.523	61.990	1.00	33.97	O
ATOM	422	OE2	GLU	A	54	41.658	58.486	60.034	1.00	34.00	O
ATOM	423	N	VAL	A	55	38.889	52.678	62.284	1.00	25.08	N
ATOM	424	CA	VAL	A	55	38.789	51.536	63.180	1.00	24.86	C
ATOM	425	C	VAL	A	55	38.374	50.277	62.427	1.00	25.21	C
ATOM	426	O	VAL	A	55	38.859	49.170	62.720	1.00	24.59	O
ATOM	427	CB	VAL	A	55	37.733	51.762	64.314	1.00	23.64	C
ATOM	428	CG1	VAL	A	55	37.543	50.475	65.124	1.00	25.06	C
ATOM	429	CG2	VAL	A	55	38.175	52.885	65.236	1.00	21.98	C
ATOM	430	N	LEU	A	56	37.466	50.419	61.463	1.00	24.30	N
ATOM	431	CA	LEU	A	56	37.018	49.239	60.730	1.00	24.05	C
ATOM	432	C	LEU	A	56	38.157	48.624	59.902	1.00	24.18	C
ATOM	433	O	LEU	A	56	38.382	47.419	59.911	1.00	26.02	O
ATOM	434	CB	LEU	A	56	35.840	49.598	59.820	1.00	22.17	C
ATOM	435	CG	LEU	A	56	35.252	48.476	58.963	1.00	22.03	C
ATOM	436	CD1	LEU	A	56	34.917	47.257	59.792	1.00	19.68	C
ATOM	437	CD2	LEU	A	56	34.031	49.039	58.205	1.00	22.93	C
ATOM	438	N	TRP	A	57	38.877	49.457	59.190	1.00	25.69	N
ATOM	439	CA	TRP	A	57	39.955	48.936	58.372	1.00	29.07	C
ATOM	440	C	TRP	A	57	40.993	48.237	59.259	1.00	30.67	C
ATOM	441	O	TRP	A	57	41.495	47.171	58.902	1.00	29.85	O
ATOM	442	CB	TRP	A	57	40.585	50.072	57.587	1.00	29.98	C
ATOM	443	CG	TRP	A	57	41.619	49.638	56.584	1.00	33.62	C
ATOM	444	CD1	TRP	A	57	42.968	49.813	56.679	1.00	35.64	C
ATOM	445	CD2	TRP	A	57	41.384	49.046	55.301	1.00	35.09	C
ATOM	446	NE1	TRP	A	57	43.590	49.382	55.533	1.00	35.88	N
ATOM	447	CE2	TRP	A	57	42.643	48.907	54.667	1.00	35.68	C
ATOM	448	CE3	TRP	A	57	40.232	48.623	54.620	1.00	35.92	C
ATOM	449	CZ2	TRP	A	57	42.786	48.365	53.379	1.00	35.70	C
ATOM	450	CZ3	TRP	A	57	40.374	48.077	53.332	1.00	35.62	C
ATOM	451	CH2	TRP	A	57	41.645	47.956	52.732	1.00	35.77	C
ATOM	452	N	GLU	A	58	41.295	48.823	60.417	1.00	31.72	N
ATOM	453	CA	GLU	A	58	42.259	48.208	61.316	1.00	33.87	C
ATOM	454	C	GLU	A	58	41.802	46.857	61.795	1.00	33.95	C
ATOM	455	O	GLU	A	58	42.563	45.879	61.732	1.00	34.77	O
ATOM	456	CB	GLU	A	58	42.554	49.113	62.512	1.00	37.60	C
ATOM	457	CG	GLU	A	58	43.628	50.123	62.220	1.00	42.99	C
ATOM	458	CD	GLU	A	58	44.389	50.521	63.467	1.00	45.82	C
ATOM	459	OE1	GLU	A	58	44.913	49.615	64.161	1.00	46.10	O
ATOM	460	OE2	GLU	A	58	44.454	51.744	63.748	1.00	49.09	O
ATOM	461	N	GLN	A	59	40.557	46.766	62.248	1.00	32.20	N
ATOM	462	CA	GLN	A	59	40.073	45.486	62.741	1.00	32.23	C
ATOM	463	C	GLN	A	59	40.072	44.416	61.662	1.00	31.88	C
ATOM	464	O	GLN	A	59	40.341	43.245	61.941	1.00	31.98	O
ATOM	465	CB	GLN	A	59	38.662	45.622	63.338	1.00	32.99	C
ATOM	466	CG	GLN	A	59	38.549	46.662	64.444	1.00	33.53	C
ATOM	467	CD	GLN	A	59	37.148	46.719	65.026	1.00	35.59	O
ATOM	468	OE1	GLN	A	59	36.162	46.376	64.341	1.00	35.58	C
ATOM	469	NE2	GLN	A	59	37.041	47.160	66.280	1.00	31.44	N
ATOM	470	N	LEU	A	60	39.760	44.805	60.428	1.00	32.11	N
ATOM	471	CA	LEU	A	60	39.729	43.830	59.338	1.00	32.12	C
ATOM	472	C	LEU	A	60	41.117	43.207	59.128	1.00	34.27	C
ATOM	473	O	LEU	A	60	41.230	42.063	58.694	1.00	32.13	O



ATOM	474	CB	LEU	A	60	39.235	44.476	58.045	1.00	30.36	C
ATOM	475	CG	LEU	A	60	37.715	44.679	58.004	1.00	28.01	C
ATOM	476	CD1	LEU	A	60	37.334	45.271	56.673	1.00	29.29	C
ATOM	477	CD2	LEU	A	60	36.987	43.324	58.249	1.00	28.09	C
ATOM	478	N	HIS	A	61	42.158	43.968	59.457	1.00	35.73	N
ATOM	479	CA	HIS	A	61	43.529	43.479	59.330	1.00	38.87	C
ATOM	480	C	HIS	A	61	44.095	42.886	60.644	1.00	39.86	C
ATOM	481	O	HIS	A	61	44.984	42.027	60.604	1.00	39.70	O
ATOM	482	CB	HIS	A	61	44.422	44.621	58.826	1.00	40.53	C
ATOM	483	CG	HIS	A	61	44.152	45.014	57.405	1.00	42.52	C
ATOM	484	ND1	HIS	A	61	44.579	44.264	56.330	1.00	44.26	N
ATOM	485	CD2	HIS	A	61	43.498	46.079	56.879	1.00	43.23	C
ATOM	486	CE1	HIS	A	61	44.206	44.851	55.204	1.00	43.88	C
ATOM	487	NE2	HIS	A	61	43.548	45.954	55.509	1.00	44.29	N
ATOM	488	N	ASP	A	62	43.564	43.313	61.796	1.00	40.15	N
ATOM	489	CA	ASP	A	62	44.053	42.849	63.103	1.00	40.39	C
ATOM	490	C	ASP	A	62	43.397	41.642	63.742	1.00	40.22	C
ATOM	491	O	ASP	A	62	44.024	40.968	64.559	1.00	40.59	O
ATOM	492	CB	ASP	A	62	44.005	43.973	64.138	1.00	41.14	C
ATOM	493	CG	ASP	A	62	44.966	45.092	63.827	1.00	42.72	C
ATOM	494	OD1	ASP	A	62	45.856	44.900	62.963	1.00	44.14	O
ATOM	495	OD2	ASP	A	62	44.838	46.164	64.462	1.00	43.25	O
ATOM	496	N	LEU	A	63	42.143	41.372	63.401	1.00	38.82	N
ATOM	497	CA	LEU	A	63	41.426	40.242	63.987	1.00	37.37	C
ATOM	498	C	LEU	A	63	41.328	39.059	63.027	1.00	36.82	C
ATOM	499	O	LEU	A	63	41.466	39.227	61.811	1.00	36.69	O
ATOM	500	CB	LEU	A	63	40.017	40.692	64.392	1.00	36.69	C
ATOM	501	CG	LEU	A	63	39.992	41.933	65.291	1.00	37.43	C
ATOM	502	CD1	LEU	A	63	38.562	42.385	65.573	1.00	36.97	C
ATOM	503	CD2	LEU	A	63	40.699	41.601	66.610	1.00	37.53	C
ATOM	504	N	GLU	A	64	41.096	37.870	63.579	1.00	36.79	N
ATOM	505	CA	GLU	A	64	40.936	36.660	62.770	1.00	37.56	C
ATOM	506	C	GLU	A	64	39.842	37.017	61.741	1.00	36.74	C
ATOM	507	O	GLU	A	64	39.934	36.683	60.560	1.00	37.44	O
ATOM	508	CB	GLU	A	64	40.495	35.484	63.655	1.00	38.88	C
ATOM	509	CG	GLU	A	64	41.060	34.118	63.236	1.00	42.47	C
ATOM	510	CD	GLU	A	64	40.470	32.949	64.042	1.00	45.02	C
ATOM	511	OE1	GLU	A	64	40.441	33.028	65.297	1.00	45.35	O
ATOM	512	OE2	GLU	A	64	40.036	31.944	63.425	1.00	46.34	O
ATOM	513	N	TRP	A	65	38.798	37.696	62.204	1.00	35.10	N
ATOM	514	CA	TRP	A	65	37.727	38.189	61.317	1.00	33.69	C
ATOM	515	C	TRP	A	65	36.788	39.067	62.136	1.00	32.58	C
ATOM	516	O	TRP	A	65	36.782	38.983	63.369	1.00	32.05	O
ATOM	517	CB	TRP	A	65	36.958	37.050	60.640	1.00	32.31	C
ATOM	518	CG	TRP	A	65	35.915	36.377	61.455	1.00	32.29	C
ATOM	519	CD1	TRP	A	65	34.565	36.649	61.459	1.00	30.86	C
ATOM	520	CD2	TRP	A	65	36.099	35.241	62.305	1.00	32.37	C
ATOM	521	NE1	TRP	A	65	33.904	35.735	62.251	1.00	29.55	N
ATOM	522	CE2	TRP	A	65	34.817	34.860	62.781	1.00	31.28	C
ATOM	523	CE3	TRP	A	65	37.225	34.498	62.710	1.00	33.09	C
ATOM	524	CZ2	TRP	A	65	34.625	33.768	63.638	1.00	33.27	C
ATOM	525	CZ3	TRP	A	65	37.034	33.403	63.569	1.00	33.81	C
ATOM	526	CH2	TRP	A	65	35.742	33.052	64.021	1.00	33.83	C
ATOM	527	N	VAL	A	66	36.028	39.916	61.439	1.00	31.25	N
ATOM	528	CA	VAL	A	66	35.089	40.855	62.071	1.00	29.72	C
ATOM	529	C	VAL	A	66	33.682	40.372	61.776	1.00	28.76	C
ATOM	530	O	VAL	A	66	33.348	40.166	60.620	1.00	30.08	O
ATOM	531	CB	VAL	A	66	35.271	42.264	61.485	1.00	28.34	C
ATOM	532	CG1	VAL	A	66	34.190	43.240	62.026	1.00	27.21	C
ATOM	533	CG2	VAL	A	66	36.682	42.771	61.779	1.00	26.42	C
ATOM	534	N	ASN	A	67	32.879	40.141	62.810	1.00	27.31	N
ATOM	535	CA	ASN	A	67	31.499	39.716	62.596	1.00	26.92	C
ATOM	536	C	ASN	A	67	30.548	40.740	63.210	1.00	26.50	C
ATOM	537	O	ASN	A	67	30.960	41.627	63.962	1.00	26.05	O
ATOM	538	CB	ASN	A	67	31.188	38.324	63.137	1.00	25.72	C
ATOM	539	CG	ASN	A	67	31.544	38.151	64.594	1.00	29.06	C
ATOM	540	OD1	ASN	A	67	31.843	39.109	65.310	1.00	30.14	O
ATOM	541	ND2	ASN	A	67	31.493	36.902	65.050	1.00	29.44	N
ATOM	542	N	ALA	A	68	29.277	40.615	62.879	1.00	24.98	N
ATOM	543	CA	ALA	A	68	28.312	41.591	63.324	1.00	22.27	C
ATOM	544	C	ALA	A	68	26.961	40.982	63.187	1.00	22.72	C
ATOM	545	O	ALA	A	68	26.826	39.904	62.599	1.00	22.68	O
ATOM	546	CB	ALA	A	68	28.404	42.819	62.445	1.00	22.94	C
ATOM	547	N	LEU	A	69	25.968	41.716	63.697	1.00	21.45	N
ATOM	548	CA	LEU	A	69	24.551	41.327	63.670	1.00	19.82	C
ATOM	549	O	LEU	A	69	23.812	42.576	63.176	1.00	19.84	C
ATOM	550	C	LEU	A	69	24.253	43.696	63.459	1.00	18.40	O
ATOM	551	CB	LEU	A	69	24.065	40.975	65.073	1.00	18.35	C
ATOM	552	CG	LEU	A	69	24.651	39.693	65.709	1.00	20.39	C
ATOM	553	CD1	LEU	A	69	24.316	39.645	67.206	1.00	18.73	C



ATOM	554	CD2	LEU	A	69	24.114	38.433	64.930	1.00	16.50	C
ATOM	555	N	GLY	A	70	22.719	42.383	62.438	1.00	20.86	N
ATOM	556	CA	GLY	A	70	21.972	43.529	61.924	1.00	19.00	C
ATOM	557	C	GLY	A	70	21.281	44.211	63.080	1.00	19.29	C
ATOM	558	O	GLY	A	70	20.748	43.521	63.947	1.00	20.07	O
ATOM	559	N	ALA	A	71	21.298	45.547	63.113	1.00	18.32	N
ATOM	560	CA	ALA	A	71	20.637	46.312	64.170	1.00	16.50	C
ATOM	561	C	ALA	A	71	19.691	47.323	63.513	1.00	16.67	C
ATOM	562	O	ALA	A	71	20.091	48.017	62.585	1.00	16.78	O
ATOM	563	CB	ALA	A	71	21.648	47.094	65.007	1.00	15.82	C
ATOM	564	N	LEU	A	72	18.482	47.442	64.040	1.00	15.06	N
ATOM	565	CA	LEU	A	72	17.540	48.381	63.466	1.00	16.15	C
ATOM	566	C	LEU	A	72	17.134	49.439	64.470	1.00	17.45	C
ATOM	567	O	LEU	A	72	16.376	50.334	64.095	1.00	14.44	O
ATOM	568	CB	LEU	A	72	16.299	47.670	62.943	1.00	16.96	C
ATOM	569	CG	LEU	A	72	15.433	46.968	63.973	1.00	16.39	C
ATOM	570	CD1	LEU	A	72	14.003	47.552	63.950	1.00	15.25	C
ATOM	571	CD2	LEU	A	72	15.377	45.467	63.601	1.00	16.05	C
ATOM	572	N	THR	A	73	17.552	49.302	65.735	1.00	14.24	N
ATOM	573	CA	THR	A	73	17.312	50.371	66.706	1.00	15.81	C
ATOM	574	C	THR	A	73	18.650	50.698	67.398	1.00	15.94	C
ATOM	575	O	THR	A	73	19.612	49.891	67.369	1.00	14.96	O
ATOM	576	CB	THR	A	73	16.236	50.098	67.793	1.00	17.02	C
ATOM	577	OG1	THR	A	73	16.790	49.358	68.902	1.00	16.59	O
ATOM	578	CG2	THR	A	73	15.079	49.387	67.222	1.00	14.82	C
ATOM	579	N	GLY	A	74	18.717	51.890	67.983	1.00	14.40	N
ATOM	580	CA	GLY	A	74	19.938	52.298	68.659	1.00	16.33	C
ATOM	581	C	GLY	A	74	20.251	51.366	69.825	1.00	17.44	C
ATOM	582	O	GLY	A	74	21.410	50.917	69.999	1.00	18.71	O
ATOM	583	N	ASN	A	75	19.241	51.090	70.637	1.00	14.44	N
ATOM	584	CA	ASN	A	75	19.416	50.166	71.768	1.00	18.38	C
ATOM	585	C	ASN	A	75	19.964	48.792	71.303	1.00	18.33	C
ATOM	586	O	ASN	A	75	20.707	48.110	72.034	1.00	18.88	O
ATOM	587	CB	ASN	A	75	18.067	49.963	72.473	1.00	17.94	C
ATOM	588	CG	ASN	A	75	17.694	51.110	73.372	1.00	15.61	C
ATOM	589	OD1	ASN	A	75	18.277	52.209	73.320	1.00	17.70	O
ATOM	590	ND2	ASN	A	75	16.716	50.877	74.200	1.00	15.16	N
ATOM	591	N	MET	A	76	19.582	48.364	70.109	1.00	18.73	N
ATOM	592	CA	MET	A	76	20.077	47.075	69.626	1.00	19.94	C
ATOM	593	C	MET	A	76	21.563	47.098	69.483	1.00	18.82	C
ATOM	594	O	MET	A	76	22.244	46.157	69.902	1.00	19.98	O
ATOM	595	CB	MET	A	76	19.479	46.724	68.264	1.00	19.89	C
ATOM	596	CG	MET	A	76	18.272	45.909	68.383	1.00	19.20	C
ATOM	597	SD	MET	A	76	17.822	45.351	66.742	1.00	18.57	S
ATOM	598	CE	MET	A	76	16.189	44.907	67.109	1.00	16.57	C
ATOM	599	N	ALA	A	77	22.057	48.158	68.867	1.00	18.10	N
ATOM	600	CA	ALA	A	77	23.487	48.323	68.665	1.00	19.58	C
ATOM	601	C	ALA	A	77	24.197	48.442	70.026	1.00	19.99	C
ATOM	602	O	ALA	A	77	25.314	47.915	70.215	1.00	21.80	O
ATOM	603	CB	ALA	A	77	23.763	49.561	67.811	1.00	17.43	C
ATOM	604	N	VAL	A	78	23.569	49.131	70.985	1.00	19.72	N
ATOM	605	CA	VAL	A	78	24.221	49.247	72.290	1.00	19.34	C
ATOM	606	C	VAL	A	78	24.410	47.866	72.912	1.00	20.21	C
ATOM	607	O	VAL	A	78	25.453	47.586	73.514	1.00	21.48	O
ATOM	608	CB	VAL	A	78	23.422	50.128	73.270	1.00	18.07	C
ATOM	609	CG1	VAL	A	78	24.081	50.034	74.699	1.00	17.28	C
ATOM	610	CG2	VAL	A	78	23.407	51.620	72.764	1.00	16.12	C
ATOM	611	N	GLN	A	79	23.415	47.010	72.802	1.00	19.74	N
ATOM	612	CA	GLN	A	79	23.545	45.674	73.375	1.00	21.23	C
ATOM	613	C	GLN	A	79	24.604	44.838	72.645	1.00	23.33	C
ATOM	614	O	GLN	A	79	25.326	44.039	73.271	1.00	21.69	O
ATOM	615	CB	GLN	A	79	22.217	44.934	73.348	1.00	21.76	C
ATOM	616	CG	GLN	A	79	21.135	45.487	74.291	1.00	23.28	C
ATOM	617	CD	GLN	A	79	21.630	45.681	75.719	1.00	25.72	C
ATOM	618	OE1	GLN	A	79	22.338	44.840	76.257	1.00	25.31	O
ATOM	619	NE2	GLN	A	79	21.242	46.786	76.338	1.00	25.55	N
ATOM	620	N	GLN	A	80	24.706	45.011	71.332	1.00	21.56	N
ATOM	621	CA	GLN	A	80	25.682	44.247	70.549	1.00	21.98	C
ATOM	622	C	GLN	A	80	27.099	44.580	71.012	1.00	24.31	C
ATOM	623	O	GLN	A	80	27.937	43.665	71.164	1.00	25.68	O
ATOM	624	CB	GLN	A	80	25.510	44.548	69.054	1.00	19.50	C
ATOM	625	CG	GLN	A	80	24.224	43.915	68.494	1.00	17.97	C
ATOM	626	CD	GLN	A	80	23.816	44.478	67.142	1.00	16.45	C
ATOM	627	OE1	GLN	A	80	24.498	45.319	66.572	1.00	14.00	O
ATOM	628	NE2	GLN	A	80	22.703	44.002	66.630	1.00	15.29	N
ATOM	629	N	VAL	A	81	27.357	45.869	71.247	1.00	23.79	N
ATOM	630	CA	VAL	A	81	28.661	46.330	71.715	1.00	26.63	C
ATOM	631	C	VAL	A	81	28.877	45.919	73.182	1.00	28.66	C
ATOM	632	O	VAL	A	81	29.992	45.538	73.568	1.00	28.92	O
ATOM	633	CB	VAL	A	81	28.795	47.856	71.588	1.00	25.86	C



ATOM	634	CG1	VAL	A	81	30.090	48.347	72.235	1.00	25.04	C
ATOM	635	CG2	VAL	A	81	28.811	48.247	70.131	1.00	26.20	C
ATOM	636	N	ARG	A	82	27.822	46.002	73.996	1.00	29.05	N
ATOM	637	CA	ARG	A	82	27.920	45.621	75.409	1.00	28.87	C
ATOM	638	C	ARG	A	82	28.304	44.137	75.498	1.00	29.37	C
ATOM	639	O	ARG	A	82	29.122	43.735	76.337	1.00	27.06	O
ATOM	640	CB	ARG	A	82	26.581	45.851	76.102	1.00	28.79	C
ATOM	641	CG	ARG	A	82	26.409	45.170	77.476	1.00	27.90	C
ATOM	642	CD	ARG	A	82	27.186	45.866	78.593	1.00	28.93	C
ATOM	643	NE	ARG	A	82	26.633	47.180	78.911	1.00	26.12	N
ATOM	644	CZ	ARG	A	82	27.246	48.065	79.688	1.00	28.07	C
ATOM	645	NH1	ARG	A	82	28.426	47.767	80.238	1.00	26.60	N
ATOM	646	NH2	ARG	A	82	26.717	49.267	79.869	1.00	23.28	N
ATOM	647	N	ALA	A	83	27.718	43.329	74.618	1.00	27.70	N
ATOM	648	CA	ALA	A	83	27.985	41.889	74.598	1.00	28.05	C
ATOM	649	C	ALA	A	83	29.349	41.521	74.003	1.00	26.39	C
ATOM	650	O	ALA	A	83	29.706	40.341	73.985	1.00	28.68	O
ATOM	651	CB	ALA	A	83	26.864	41.147	73.852	1.00	26.93	C
ATOM	652	N	GLY	A	84	30.097	42.501	73.514	1.00	26.53	N
ATOM	653	CA	GLY	A	84	31.425	42.224	72.994	1.00	28.53	C
ATOM	654	C	GLY	A	84	31.688	42.307	71.503	1.00	28.58	C
ATOM	655	O	GLY	A	84	32.841	42.158	71.083	1.00	30.79	O
ATOM	656	N	LEU	A	85	30.649	42.548	70.701	1.00	26.10	N
ATOM	657	CA	LEU	A	85	30.822	42.639	69.250	1.00	25.03	C
ATOM	658	C	LEU	A	85	31.610	43.887	68.880	1.00	24.61	C
ATOM	659	O	LEU	A	85	31.565	44.888	69.597	1.00	24.98	O
ATOM	660	CB	LEU	A	85	29.445	42.622	68.581	1.00	23.35	C
ATOM	661	CG	LEU	A	85	28.697	41.322	68.848	1.00	21.82	C
ATOM	662	CD1	LEU	A	85	27.425	41.218	68.007	1.00	22.79	C
ATOM	663	CD2	LEU	A	85	29.603	40.179	68.471	1.00	26.12	C
ATOM	664	N	LYS	A	86	32.349	43.855	67.780	1.00	22.98	N
ATOM	665	CA	LYS	A	86	33.151	45.020	67.444	1.00	24.24	C
ATOM	666	C	LYS	A	86	32.754	45.795	66.193	1.00	23.45	C
ATOM	667	O	LYS	A	86	33.500	46.646	65.717	1.00	23.66	O
ATOM	668	CB	LYS	A	86	34.639	44.618	67.370	1.00	26.89	C
ATOM	669	CG	LYS	A	86	35.223	44.229	68.744	1.00	29.93	C
ATOM	670	CD	LYS	A	86	36.664	43.705	68.638	1.00	33.00	C
ATOM	671	CE	LYS	A	86	37.159	43.100	69.962	1.00	34.76	C
ATOM	672	NZ	LYS	A	86	37.438	44.076	71.060	1.00	35.44	N
ATOM	673	N	ALA	A	87	31.583	45.491	65.659	1.00	22.80	N
ATOM	674	CA	ALA	A	87	31.060	46.177	64.483	1.00	21.82	C
ATOM	675	C	ALA	A	87	29.538	45.978	64.498	1.00	20.00	C
ATOM	676	O	ALA	A	87	29.032	45.061	65.129	1.00	21.92	O
ATOM	677	CB	ALA	A	87	31.654	45.578	63.179	1.00	22.05	C
ATOM	678	N	ILE	A	88	28.819	46.854	63.794	1.00	20.24	N
ATOM	679	CA	ILE	A	88	27.370	46.768	63.730	1.00	19.33	C
ATOM	680	C	ILE	A	88	26.968	46.685	62.256	1.00	18.78	C
ATOM	681	O	ILE	A	88	27.510	47.390	61.430	1.00	19.43	O
ATOM	682	CB	ILE	A	88	26.764	48.046	64.360	1.00	21.99	C
ATOM	683	CG1	ILE	A	88	27.274	48.169	65.800	1.00	21.54	C
ATOM	684	CG2	ILE	A	88	25.236	47.984	64.337	1.00	21.70	C
ATOM	685	CD1	ILE	A	88	27.420	49.533	66.269	1.00	25.57	C
ATOM	686	N	TYR	A	89	26.005	45.839	61.937	1.00	19.30	N
ATOM	687	CA	TYR	A	89	25.560	45.744	60.545	1.00	17.82	C
ATOM	688	C	TYR	A	89	24.188	46.398	60.478	1.00	14.99	C
ATOM	689	O	TYR	A	89	23.378	46.092	61.295	1.00	15.04	O
ATOM	690	CB	TYR	A	89	25.414	44.290	60.124	1.00	15.99	C
ATOM	691	CG	TYR	A	89	24.953	44.204	58.692	1.00	17.37	C
ATOM	692	CD1	TYR	A	89	25.777	44.626	57.656	1.00	19.79	C
ATOM	693	CD2	TYR	A	89	23.662	43.790	58.384	1.00	18.55	C
ATOM	694	CE1	TYR	A	89	25.324	44.653	56.314	1.00	19.98	C
ATOM	695	CE2	TYR	A	89	23.204	43.812	57.077	1.00	20.44	C
ATOM	696	CZ	TYR	A	89	24.038	44.244	56.043	1.00	20.05	C
ATOM	697	OH	TYR	A	89	23.565	44.257	54.742	1.00	21.90	O
ATOM	698	N	LEU	A	90	23.960	47.250	59.482	1.00	13.65	N
ATOM	699	CA	LEU	A	90	22.700	47.973	59.325	1.00	16.27	C
ATOM	700	C	LEU	A	90	22.107	47.505	58.018	1.00	16.09	C
ATOM	701	O	LEU	A	90	22.529	47.895	56.910	1.00	15.99	O
ATOM	702	CB	LEU	A	90	22.992	49.469	59.311	1.00	18.34	C
ATOM	703	CG	LEU	A	90	21.957	50.568	59.042	1.00	20.77	C
ATOM	704	CD1	LEU	A	90	20.540	50.025	59.009	1.00	18.71	C
ATOM	705	CD2	LEU	A	90	22.168	51.682	60.034	1.00	16.69	C
ATOM	706	N	SER	A	91	21.124	46.650	58.197	1.00	17.21	N
ATOM	707	CA	SER	A	91	20.405	45.990	57.120	1.00	17.25	C
ATOM	708	C	SER	A	91	19.313	46.863	56.516	1.00	14.77	C
ATOM	709	O	SER	A	91	18.513	47.444	57.261	1.00	14.88	O
ATOM	710	CB	SER	A	91	19.791	44.718	57.700	1.00	16.62	C
ATOM	711	OG	SER	A	91	18.927	44.115	56.773	1.00	19.19	O
ATOM	712	N	GLY	A	92	19.270	46.915	55.185	1.00	14.24	N
ATOM	713	CA	GLY	A	92	18.232	47.697	54.504	1.00	13.49	C



ATOM	714	C	GLY	A	92	16.938	46.899	54.542	1.00	15.16	C
ATOM	715	O	GLY	A	92	15.842	47.476	54.478	1.00	13.82	O
ATOM	716	N	TRP	A	93	17.043	45.572	54.644	1.00	12.27	N
ATOM	717	CA	TRP	A	93	15.848	44.704	54.717	1.00	13.73	C
ATOM	718	C	TRP	A	93	15.105	45.036	56.028	1.00	13.03	C
ATOM	719	O	TRP	A	93	13.870	45.164	56.039	1.00	13.75	O
ATOM	720	CB	TRP	A	93	16.288	43.217	54.748	1.00	13.20	C
ATOM	721	CG	TRP	A	93	15.174	42.148	54.715	1.00	13.68	C
ATOM	722	CD1	TRP	A	93	14.879	41.328	53.670	1.00	12.69	C
ATOM	723	CD2	TRP	A	93	14.230	41.833	55.746	1.00	13.43	C
ATOM	724	NE1	TRP	A	93	13.814	40.524	53.984	1.00	14.71	N
ATOM	725	CE2	TRP	A	93	13.392	40.814	55.250	1.00	13.41	C
ATOM	726	CE3	TRP	A	93	14.005	42.313	57.039	1.00	15.38	C
ATOM	727	CZ2	TRP	A	93	12.364	40.279	55.989	1.00	11.78	C
ATOM	728	CZ3	TRP	A	93	12.976	41.770	57.782	1.00	16.40	C
ATOM	729	CH2	TRP	A	93	12.165	40.762	57.255	1.00	15.38	C
ATOM	730	N	GLN	A	94	15.862	45.166	57.135	1.00	14.40	N
ATOM	731	CA	GLN	A	94	15.297	45.479	58.454	1.00	13.90	C
ATOM	732	C	GLN	A	94	14.666	46.876	58.466	1.00	14.73	C
ATOM	733	O	GLN	A	94	13.590	47.074	59.054	1.00	13.96	O
ATOM	734	CB	GLN	A	94	16.365	45.362	59.559	1.00	15.29	C
ATOM	735	CG	GLN	A	94	16.808	43.900	59.792	1.00	17.79	C
ATOM	736	CD	GLN	A	94	17.784	43.750	60.970	1.00	17.15	C
ATOM	737	OE1	GLN	A	94	18.533	44.684	61.284	1.00	21.26	O
ATOM	738	NE2	GLN	A	94	17.785	42.572	61.618	1.00	19.47	N
ATOM	739	N	VAL	A	95	15.329	47.836	57.811	1.00	14.08	N
ATOM	740	CA	VAL	A	95	14.800	49.196	57.686	1.00	13.82	C
ATOM	741	C	VAL	A	95	13.473	49.140	56.883	1.00	13.03	C
ATOM	742	O	VAL	A	95	12.494	49.772	57.260	1.00	13.70	O
ATOM	743	CB	VAL	A	95	15.866	50.066	57.007	1.00	12.82	C
ATOM	744	CG1	VAL	A	95	15.265	51.372	56.447	1.00	14.20	C
ATOM	745	CG2	VAL	A	95	16.996	50.318	58.023	1.00	12.73	C
ATOM	746	N	ALA	A	96	13.437	48.364	55.796	1.00	12.98	N
ATOM	747	CA	ALA	A	96	12.209	48.217	55.013	1.00	13.08	C
ATOM	748	C	ALA	A	96	11.098	47.624	55.900	1.00	13.87	C
ATOM	749	O	ALA	A	96	9.949	48.053	55.875	1.00	13.22	O
ATOM	750	CB	ALA	A	96	12.463	47.276	53.816	1.00	12.89	C
ATOM	751	N	GLY	A	97	11.451	46.618	56.676	1.00	13.78	N
ATOM	752	CA	GLY	A	97	10.454	45.971	57.498	1.00	14.16	C
ATOM	753	C	GLY	A	97	9.965	46.648	58.766	1.00	14.40	C
ATOM	754	O	GLY	A	97	8.820	46.443	59.147	1.00	12.58	O
ATOM	755	N	ASP	A	98	10.776	47.494	59.397	1.00	13.89	N
ATOM	756	CA	ASP	A	98	10.333	48.064	60.681	1.00	13.81	C
ATOM	757	C	ASP	A	98	11.032	49.353	61.072	1.00	13.03	C
ATOM	758	O	ASP	A	98	10.935	49.744	62.222	1.00	14.63	O
ATOM	759	CB	ASP	A	98	10.623	46.996	61.773	1.00	14.40	C
ATOM	760	CG	ASP	A	98	9.727	47.088	63.000	1.00	13.95	C
ATOM	761	OD1	ASP	A	98	8.612	47.670	62.965	1.00	15.25	O
ATOM	762	OD2	ASP	A	98	10.173	46.534	64.053	1.00	16.14	O
ATOM	763	N	ALA	A	99	11.775	49.989	60.170	1.00	12.72	N
ATOM	764	CA	ALA	A	99	12.465	51.229	60.591	1.00	13.43	C
ATOM	765	C	ALA	A	99	12.741	52.219	59.463	1.00	14.01	C
ATOM	766	O	ALA	A	99	13.863	52.715	59.318	1.00	15.31	O
ATOM	767	CB	ALA	A	99	13.796	50.868	61.315	1.00	13.69	C
ATOM	768	N	ASN	A	100	11.735	52.520	58.650	1.00	9.19	N
ATOM	769	CA	ASN	A	100	11.991	53.445	57.577	1.00	8.48	C
ATOM	770	C	ASN	A	100	11.145	54.714	57.650	1.00	10.85	C
ATOM	771	O	ASN	A	100	10.130	54.758	58.328	1.00	11.02	O
ATOM	772	CB	ASN	A	100	11.885	52.771	56.214	1.00	8.28	C
ATOM	773	CG	ASN	A	100	10.468	52.367	55.855	1.00	12.48	C
ATOM	774	OD1	ASN	A	100	10.032	51.173	56.016	1.00	15.21	O
ATOM	775	ND2	ASN	A	100	9.731	53.335	55.354	1.00	9.35	N
ATOM	776	N	LEU	A	101	11.592	55.744	56.935	1.00	10.12	N
ATOM	777	CA	LEU	A	101	10.925	57.059	56.993	1.00	11.96	C
ATOM	778	C	LEU	A	101	9.508	57.171	56.402	1.00	11.71	C
ATOM	779	O	LEU	A	101	8.845	58.215	56.559	1.00	12.31	O
ATOM	780	CB	LEU	A	101	11.855	58.110	56.382	1.00	10.32	C
ATOM	781	CG	LEU	A	101	13.183	58.123	57.167	1.00	12.69	C
ATOM	782	CD1	LEU	A	101	14.161	59.067	56.447	1.00	11.42	C
ATOM	783	CD2	LEU	A	101	12.916	58.611	58.629	1.00	13.03	C
ATOM	784	N	SER	A	102	9.010	56.122	55.767	1.00	11.69	N
ATOM	785	CA	SER	A	102	7.607	56.201	55.267	1.00	12.81	C
ATOM	786	C	SER	A	102	6.626	55.764	56.346	1.00	12.22	C
ATOM	787	O	SER	A	102	5.419	56.021	56.233	1.00	12.70	O
ATOM	788	CB	SER	A	102	7.367	55.274	54.080	1.00	10.56	C
ATOM	789	OG	SER	A	102	7.299	53.945	54.529	1.00	11.71	O
ATOM	790	N	GLY	A	103	7.148	55.094	57.368	1.00	11.76	N
ATOM	791	CA	GLY	A	103	6.321	54.576	58.452	1.00	11.94	C
ATOM	792	C	GLY	A	103	5.646	53.238	58.110	1.00	11.88	C
ATOM	793	O	GLY	A	103	4.989	52.655	58.972	1.00	14.48	O



ATOM	794	N	HIS	A	104	5.828	52.753	56.878	1.00	11.64	N
ATOM	795	CA	HIS	A	104	5.241	51.490	56.438	1.00	10.27	C
ATOM	796	C	HIS	A	104	6.148	50.271	56.561	1.00	13.55	C
ATOM	797	O	HIS	A	104	7.362	50.398	56.695	1.00	11.86	O
ATOM	798	CB	HIS	A	104	4.763	51.628	54.981	1.00	12.39	C
ATOM	799	CG	HIS	A	104	3.540	52.493	54.839	1.00	12.25	C
ATOM	800	ND1	HIS	A	104	3.549	53.716	54.198	1.00	15.06	N
ATOM	801	CD2	HIS	A	104	2.272	52.308	55.280	1.00	13.39	C
ATOM	802	CE1	HIS	A	104	2.338	54.258	54.258	1.00	10.81	N
ATOM	803	NE2	HIS	A	104	1.543	53.422	54.913	1.00	14.72	C
ATOM	804	N	THR	A	105	5.509	49.093	56.577	1.00	11.21	N
ATOM	805	CA	THR	A	105	6.210	47.812	56.620	1.00	13.23	C
ATOM	806	C	THR	A	105	6.392	47.451	55.141	1.00	12.88	C
ATOM	807	O	THR	A	105	5.440	47.455	54.379	1.00	12.30	O
ATOM	808	CB	THR	A	105	5.325	46.740	57.350	1.00	12.08	C
ATOM	809	OG1	THR	A	105	5.209	47.106	58.732	1.00	13.77	O
ATOM	810	CG2	THR	A	105	5.946	45.329	57.271	1.00	14.93	C
ATOM	811	N	TYR	A	106	7.620	47.156	54.712	1.00	12.65	N
ATOM	812	CA	TYR	A	106	7.828	46.770	53.320	1.00	13.14	C
ATOM	813	C	TYR	A	106	8.728	45.577	53.141	1.00	12.53	C
ATOM	814	O	TYR	A	106	9.570	45.316	53.996	1.00	14.01	O
ATOM	815	CB	TYR	A	106	8.562	47.857	52.520	1.00	12.09	C
ATOM	816	CG	TYR	A	106	7.824	49.137	52.335	1.00	12.80	C
ATOM	817	CD1	TYR	A	106	6.580	49.158	51.679	1.00	12.72	C
ATOM	818	CD2	TYR	A	106	8.420	50.362	52.684	1.00	15.17	C
ATOM	819	CE1	TYR	A	106	5.953	50.377	51.353	1.00	13.45	C
ATOM	820	CE2	TYR	A	106	7.794	51.588	52.358	1.00	13.29	C
ATOM	821	CZ	TYR	A	106	6.565	51.590	51.689	1.00	14.28	C
ATOM	822	OH	TYR	A	106	5.917	52.823	51.346	1.00	10.79	O
ATOM	823	N	PRO	A	107	8.556	44.846	52.022	1.00	13.68	N
ATOM	824	CA	PRO	A	107	9.393	43.697	51.682	1.00	15.72	C
ATOM	825	C	PRO	A	107	10.689	44.374	51.178	1.00	15.28	C
ATOM	826	O	PRO	A	107	10.743	45.602	50.982	1.00	18.00	O
ATOM	827	CB	PRO	A	107	8.608	42.993	50.572	1.00	15.53	C
ATOM	828	CG	PRO	A	107	7.777	44.072	49.948	1.00	15.15	C
ATOM	829	CD	PRO	A	107	7.355	44.895	51.160	1.00	15.68	C
ATOM	830	N	ASP	A	108	11.731	43.601	50.955	1.00	17.91	N
ATOM	831	CA	ASP	A	108	13.032	44.156	50.592	1.00	17.04	C
ATOM	832	C	ASP	A	108	13.176	44.432	49.094	1.00	16.77	C
ATOM	833	O	ASP	A	108	13.859	43.697	48.397	1.00	14.66	O
ATOM	834	CB	ASP	A	108	14.090	43.177	51.092	1.00	18.54	C
ATOM	835	CG	ASP	A	108	15.459	43.754	51.086	1.00	18.91	C
ATOM	836	OD1	ASP	A	108	15.572	44.980	51.102	1.00	18.68	O
ATOM	837	OD2	ASP	A	108	16.439	42.977	51.099	1.00	20.61	O
ATOM	838	N	GLN	A	109	12.543	45.527	48.637	1.00	15.41	N
ATOM	839	CA	GLN	A	109	12.508	45.928	47.233	1.00	13.68	C
ATOM	840	C	GLN	A	109	12.781	47.428	46.967	1.00	13.65	C
ATOM	841	O	GLN	A	109	12.298	47.998	45.964	1.00	12.10	O
ATOM	842	CB	GLN	A	109	11.146	45.520	46.648	1.00	15.16	C
ATOM	843	CG	GLN	A	109	10.902	44.000	46.767	1.00	17.42	C
ATOM	844	CD	GLN	A	109	9.593	43.532	46.120	1.00	18.48	C
ATOM	845	OE1	GLN	A	109	9.423	43.639	44.914	1.00	18.14	O
ATOM	846	NE2	GLN	A	109	8.684	43.020	46.924	1.00	18.99	N
ATOM	847	N	SER	A	110	13.590	48.044	47.828	1.00	14.59	N
ATOM	848	CA	SER	A	110	13.932	49.473	47.707	1.00	14.05	C
ATOM	849	C	SER	A	110	12.701	50.368	47.543	1.00	13.65	C
ATOM	850	O	SER	A	110	12.691	51.281	46.710	1.00	14.45	O
ATOM	851	CB	SER	A	110	14.915	49.714	46.529	1.00	17.73	C
ATOM	852	OG	SER	A	110	16.188	49.113	46.794	1.00	19.23	O
ATOM	853	N	LEU	A	111	11.685	50.115	48.371	1.00	12.68	N
ATOM	854	CA	LEU	A	111	10.440	50.873	48.368	1.00	12.62	C
ATOM	855	C	LEU	A	111	10.437	52.072	49.332	1.00	11.47	C
ATOM	856	O	LEU	A	111	9.654	52.973	49.142	1.00	13.94	O
ATOM	857	CB	LEU	A	111	9.288	49.940	48.764	1.00	12.67	C
ATOM	858	CG	LEU	A	111	9.043	48.767	47.829	1.00	13.92	C
ATOM	859	CD1	LEU	A	111	7.989	47.800	48.497	1.00	17.29	C
ATOM	860	CD2	LEU	A	111	8.571	49.257	46.472	1.00	16.62	C
ATOM	861	N	TYR	A	112	11.306	52.076	50.341	1.00	12.08	N
ATOM	862	CA	TYR	A	112	11.326	53.142	51.337	1.00	10.91	C
ATOM	863	C	TYR	A	112	12.122	54.363	50.880	1.00	11.60	C
ATOM	864	O	TYR	A	112	12.878	54.269	49.914	1.00	12.41	O
ATOM	865	CB	TYR	A	112	11.818	52.610	52.694	1.00	10.47	C
ATOM	866	CG	TYR	A	112	13.255	52.028	52.651	1.00	13.10	C
ATOM	867	CD1	TYR	A	112	14.377	52.884	52.564	1.00	13.03	C
ATOM	868	CD2	TYR	A	112	13.474	50.642	52.677	1.00	14.22	C
ATOM	869	CE1	TYR	A	112	15.672	52.391	52.517	1.00	12.77	C
ATOM	870	CE2	TYR	A	112	14.789	50.105	52.615	1.00	11.96	C
ATOM	871	CZ	TYR	A	112	15.883	50.993	52.543	1.00	13.25	C
ATOM	872	OH	TYR	A	112	17.185	50.497	52.508	1.00	13.71	O
ATOM	873	N	PRO	A	113	11.903	55.539	51.528	1.00	11.77	N



ATOM	874	CA	PRO	A	113	12.609	56.777	51.178	1.00	12.74	C
ATOM	875	C	PRO	A	113	14.118	56.542	51.278	1.00	12.03	C
ATOM	876	O	PRO	A	113	14.582	55.969	52.241	1.00	12.41	O
ATOM	877	CB	PRO	A	113	12.105	57.782	52.199	1.00	12.09	C
ATOM	878	CG	PRO	A	113	10.647	57.273	52.469	1.00	14.59	C
ATOM	879	CD	PRO	A	113	10.914	55.764	52.598	1.00	11.22	C
ATOM	880	N	ALA	A	114	14.843	56.970	50.255	1.00	12.79	N
ATOM	881	CA	ALA	A	114	16.305	56.778	50.183	1.00	13.64	C
ATOM	882	C	ALA	A	114	17.170	57.326	51.337	1.00	13.11	C
ATOM	883	O	ALA	A	114	18.367	56.953	51.443	1.00	16.22	O
ATOM	884	CB	ALA	A	114	16.809	57.312	48.857	1.00	11.97	C
ATOM	885	N	ASN	A	115	16.626	58.177	52.186	1.00	13.41	N
ATOM	886	CA	ASN	A	115	17.409	58.668	53.316	1.00	12.96	C
ATOM	887	C	ASN	A	115	17.121	57.889	54.585	1.00	10.47	C
ATOM	888	O	ASN	A	115	17.496	58.308	55.671	1.00	10.24	O
ATOM	889	CB	ASN	A	115	17.217	60.191	53.541	1.00	14.49	C
ATOM	890	CG	ASN	A	115	15.788	60.585	53.838	1.00	13.70	C
ATOM	891	OD1	ASN	A	115	14.843	59.929	53.423	1.00	12.87	O
ATOM	892	ND2	ASN	A	115	15.626	61.701	54.533	1.00	14.56	N
ATOM	893	N	SER	A	116	16.457	56.730	54.459	1.00	8.79	N
ATOM	894	CA	SER	A	116	16.146	55.973	55.640	1.00	9.63	C
ATOM	895	C	SER	A	116	17.361	55.338	56.325	1.00	9.11	C
ATOM	896	O	SER	A	116	17.544	55.501	57.542	1.00	10.68	O
ATOM	897	CB	SER	A	116	15.077	54.886	55.337	1.00	11.24	C
ATOM	898	OG	SER	A	116	13.812	55.488	54.941	1.00	10.71	O
ATOM	899	N	VAL	A	117	18.197	54.646	55.570	1.00	11.30	N
ATOM	900	CA	VAL	A	117	19.358	54.006	56.204	1.00	12.41	C
ATOM	901	C	VAL	A	117	20.292	55.044	56.875	1.00	12.36	C
ATOM	902	O	VAL	A	117	20.743	54.826	58.009	1.00	12.60	O
ATOM	903	CB	VAL	A	117	20.085	53.092	55.213	1.00	11.68	C
ATOM	904	CG1	VAL	A	117	21.389	52.625	55.790	1.00	12.55	C
ATOM	905	CG2	VAL	A	117	19.179	51.877	54.873	1.00	13.65	C
ATOM	906	N	PRO	A	118	20.550	56.186	56.210	1.00	12.70	N
ATOM	907	CA	PRO	A	118	21.415	57.222	56.809	1.00	12.91	C
ATOM	908	C	PRO	A	118	20.815	57.642	58.147	1.00	13.86	C
ATOM	909	O	PRO	A	118	21.512	57.888	59.125	1.00	13.05	O
ATOM	910	CB	PRO	A	118	21.341	58.369	55.792	1.00	14.39	C
ATOM	911	CG	PRO	A	118	21.335	57.590	54.481	1.00	12.66	C
ATOM	912	CD	PRO	A	118	20.369	56.429	54.766	1.00	12.25	C
ATOM	913	N	GLN	A	119	19.499	57.797	58.190	1.00	14.57	N
ATOM	914	CA	GLN	A	119	18.924	58.173	59.461	1.00	14.99	C
ATOM	915	C	GLN	A	119	19.160	57.155	60.543	1.00	14.62	C
ATOM	916	O	GLN	A	119	19.360	57.543	61.708	1.00	16.00	O
ATOM	917	CB	GLN	A	119	17.415	58.436	59.361	1.00	18.27	C
ATOM	918	CG	GLN	A	119	17.095	59.787	58.796	1.00	23.81	C
ATOM	919	CD	GLN	A	119	17.651	60.920	59.636	1.00	28.59	C
ATOM	920	OE1	GLN	A	119	18.868	61.193	59.622	1.00	30.79	O
ATOM	921	NE2	GLN	A	119	16.761	61.592	60.383	1.00	28.07	N
ATOM	922	N	VAL	A	120	19.146	55.867	60.195	1.00	12.30	N
ATOM	923	CA	VAL	A	120	19.344	54.833	61.204	1.00	14.01	C
ATOM	924	C	VAL	A	120	20.829	54.781	61.577	1.00	14.14	C
ATOM	925	O	VAL	A	120	21.185	54.423	62.723	1.00	15.74	O
ATOM	926	CB	VAL	A	120	18.831	53.477	60.687	1.00	15.79	C
ATOM	927	CG1	VAL	A	120	19.007	52.356	61.738	1.00	16.95	C
ATOM	928	CG2	VAL	A	120	17.305	53.644	60.380	1.00	14.81	C
ATOM	929	N	VAL	A	121	21.684	55.162	60.639	1.00	13.78	N
ATOM	930	CA	VAL	A	121	23.112	55.211	60.951	1.00	14.29	C
ATOM	931	C	VAL	A	121	23.271	56.306	62.012	1.00	12.92	C
ATOM	932	O	VAL	A	121	23.956	56.087	63.017	1.00	14.79	O
ATOM	933	CB	VAL	A	121	24.001	55.581	59.733	1.00	16.15	C
ATOM	934	CG1	VAL	A	121	25.476	55.821	60.230	1.00	14.47	C
ATOM	935	CG2	VAL	A	121	23.985	54.470	58.704	1.00	13.89	C
ATOM	936	N	ARG	A	122	22.616	57.464	61.820	1.00	14.04	N
ATOM	937	CA	ARG	A	122	22.711	58.562	62.779	1.00	13.18	C
ATOM	938	C	ARG	A	122	22.171	58.155	64.161	1.00	14.13	C
ATOM	939	O	ARG	A	122	22.750	58.472	65.182	1.00	12.41	O
ATOM	940	CB	ARG	A	122	21.955	59.807	62.244	1.00	12.76	C
ATOM	941	CG	ARG	A	122	22.118	61.030	63.147	1.00	13.88	C
ATOM	942	CD	ARG	A	122	23.600	61.485	63.230	1.00	17.99	C
ATOM	943	NE	ARG	A	122	24.273	61.056	64.467	1.00	17.79	N
ATOM	944	CZ	ARG	A	122	25.478	61.488	64.856	1.00	18.40	C
ATOM	945	NH1	ARG	A	122	26.155	62.361	64.088	1.00	18.13	N
ATOM	946	NH2	ARG	A	122	25.972	61.096	66.035	1.00	15.37	N
ATOM	947	N	ARG	A	123	21.045	57.442	64.169	1.00	14.05	N
ATOM	948	CA	ARG	A	123	20.426	56.952	65.400	1.00	14.11	C
ATOM	949	C	ARG	A	123	21.373	56.023	66.153	1.00	13.74	C
ATOM	950	O	ARG	A	123	21.571	56.133	67.371	1.00	12.92	O
ATOM	951	CB	ARG	A	123	19.149	56.171	65.025	1.00	11.99	C
ATOM	952	CG	ARG	A	123	18.564	55.370	66.163	1.00	14.12	C
ATOM	953	CD	ARG	A	123	18.339	56.239	67.412	1.00	14.71	C



ATOM	954	NE	ARG	A	123	18.042	55.391	68.578	1.00	13.94	N
ATOM	955	CZ	ARG	A	123	18.356	55.694	69.825	1.00	12.44	C
ATOM	956	NH1	ARG	A	123	18.984	56.857	70.087	1.00	13.74	N
ATOM	957	NH2	ARG	A	123	18.065	54.828	70.798	1.00	12.19	N
ATOM	958	N	ILE	A	124	21.927	55.076	65.420	1.00	12.36	N
ATOM	959	CA	ILE	A	124	22.828	54.122	66.030	1.00	15.38	C
ATOM	960	C	ILE	A	124	24.020	54.810	66.666	1.00	13.46	C
ATOM	961	O	ILE	A	124	24.343	54.562	67.833	1.00	14.20	O
ATOM	962	CB	ILE	A	124	23.257	53.076	65.024	1.00	15.19	C
ATOM	963	CG1	ILE	A	124	22.114	52.084	64.856	1.00	15.67	C
ATOM	964	CG2	ILE	A	124	24.490	52.321	65.544	1.00	16.69	C
ATOM	965	CD1	ILE	A	124	22.280	51.065	63.719	1.00	14.93	C
ATOM	966	N	ASN	A	125	24.658	55.695	65.922	1.00	14.76	N
ATOM	967	CA	ASN	A	125	25.750	56.438	66.505	1.00	15.09	C
ATOM	968	C	ASN	A	125	25.276	57.265	67.747	1.00	16.64	C
ATOM	969	O	ASN	A	125	25.993	57.367	68.745	1.00	16.13	O
ATOM	970	CB	ASN	A	125	26.363	57.346	65.453	1.00	15.58	C
ATOM	971	CG	ASN	A	125	27.409	56.624	64.611	1.00	18.87	C
ATOM	972	OD1	ASN	A	125	28.080	55.738	65.117	1.00	20.13	O
ATOM	973	ND2	ASN	A	125	27.560	57.018	63.336	1.00	18.00	N
ATOM	974	N	ASN	A	126	24.087	57.877	67.705	1.00	15.60	N
ATOM	975	CA	ASN	A	126	23.620	58.643	68.865	1.00	13.90	C
ATOM	976	C	ASN	A	126	23.476	57.705	70.074	1.00	15.98	C
ATOM	977	O	ASN	A	126	23.764	58.094	71.218	1.00	17.00	O
ATOM	978	CB	ASN	A	126	22.248	59.338	68.627	1.00	13.87	C
ATOM	979	CG	ASN	A	126	22.317	60.456	67.600	1.00	15.02	C
ATOM	980	OD1	ASN	A	126	23.391	61.028	67.349	1.00	12.11	O
ATOM	981	ND2	ASN	A	126	21.156	60.827	67.024	1.00	12.44	N
ATOM	982	N	ALA	A	127	23.022	56.481	69.839	1.00	15.70	N
ATOM	983	CA	ALA	A	127	22.845	55.581	70.964	1.00	15.80	C
ATOM	984	C	ALA	A	127	24.160	55.100	71.523	1.00	14.06	C
ATOM	985	O	ALA	A	127	24.287	54.927	72.731	1.00	12.72	O
ATOM	986	CB	ALA	A	127	21.991	54.374	70.594	1.00	13.91	C
ATOM	987	N	LEU	A	128	25.115	54.839	70.637	1.00	16.22	N
ATOM	988	CA	LEU	A	128	26.402	54.350	71.114	1.00	17.04	C
ATOM	989	C	LEU	A	128	27.063	55.486	71.852	1.00	18.59	C
ATOM	990	O	LEU	A	128	27.751	55.236	72.846	1.00	19.89	O
ATOM	991	CB	LEU	A	128	27.289	53.871	69.960	1.00	17.89	C
ATOM	992	CG	LEU	A	128	26.838	52.607	69.215	1.00	18.95	C
ATOM	993	CD1	LEU	A	128	27.830	52.329	68.068	1.00	18.07	C
ATOM	994	CD2	LEU	A	128	26.745	51.428	70.150	1.00	18.54	C
ATOM	995	N	GLN	A	129	26.858	56.724	71.377	1.00	17.01	N
ATOM	996	CA	GLN	A	129	27.426	57.908	72.027	1.00	18.25	C
ATOM	997	C	GLN	A	129	26.894	58.076	73.423	1.00	17.55	C
ATOM	998	O	GLN	A	129	27.648	58.363	74.340	1.00	17.18	O
ATOM	999	CB	GLN	A	129	27.136	59.188	71.238	1.00	15.71	C
ATOM	1000	CG	GLN	A	129	28.128	59.350	70.111	1.00	17.50	C
ATOM	1001	CD	GLN	A	129	27.809	60.547	69.293	1.00	23.07	C
ATOM	1002	OE1	GLN	A	129	26.710	60.644	68.742	1.00	21.86	O
ATOM	1003	NE2	GLN	A	129	28.758	61.490	69.203	1.00	21.93	N
ATOM	1004	N	ARG	A	130	25.586	57.892	73.588	1.00	17.90	N
ATOM	1005	CA	ARG	A	130	25.005	57.986	74.925	1.00	18.33	C
ATOM	1006	C	ARG	A	130	25.629	56.904	75.834	1.00	20.42	C
ATOM	1007	O	ARG	A	130	25.979	57.178	76.983	1.00	19.81	O
ATOM	1008	CB	ARG	A	130	23.473	57.795	74.875	1.00	18.55	C
ATOM	1009	CG	ARG	A	130	22.809	58.051	76.225	1.00	16.04	C
ATOM	1010	CD	ARG	A	130	22.897	59.527	76.553	1.00	16.45	C
ATOM	1011	NE	ARG	A	130	21.899	60.282	75.800	1.00	15.52	N
ATOM	1012	CZ	ARG	A	130	22.046	61.504	75.293	1.00	14.24	C
ATOM	1013	NH1	ARG	A	130	23.194	62.208	75.407	1.00	16.88	N
ATOM	1014	NH2	ARG	A	130	21.002	62.052	74.703	1.00	13.98	N
ATOM	1015	N	ALA	A	131	25.732	55.670	75.337	1.00	18.91	N
ATOM	1016	CA	ALA	A	131	26.301	54.612	76.143	1.00	20.63	C
ATOM	1017	C	ALA	A	131	27.688	55.022	76.538	1.00	20.92	C
ATOM	1018	O	ALA	A	131	28.095	54.812	77.692	1.00	25.00	O
ATOM	1019	CB	ALA	A	131	26.327	53.275	75.370	1.00	18.50	C
ATOM	1020	N	ASP	A	132	28.407	55.604	75.584	1.00	21.23	N
ATOM	1021	CA	ASP	A	132	29.777	56.074	75.801	1.00	23.73	C
ATOM	1022	C	ASP	A	132	29.799	57.096	76.941	1.00	23.84	C
ATOM	1023	O	ASP	A	132	30.555	56.928	77.897	1.00	24.42	O
ATOM	1024	CB	ASP	A	132	30.316	56.714	74.525	1.00	23.79	C
ATOM	1025	CG	ASP	A	132	31.727	57.246	74.683	1.00	24.03	C
ATOM	1026	OD1	ASP	A	132	32.632	56.453	75.031	1.00	27.51	O
ATOM	1027	OD2	ASP	A	132	31.948	58.453	74.447	1.00	26.70	O
ATOM	1028	N	GLN	A	133	28.968	58.141	76.828	1.00	22.13	N
ATOM	1029	CA	GLN	A	133	28.827	59.185	77.839	1.00	21.43	C
ATOM	1030	C	GLN	A	133	28.472	58.630	79.226	1.00	22.01	C
ATOM	1031	O	GLN	A	133	28.982	59.113	80.227	1.00	24.19	O
ATOM	1032	CB	GLN	A	133	27.729	60.173	77.452	1.00	20.82	C
ATOM	1033	CG	GLN	A	133	28.056	61.118	76.312	1.00	17.11	C



ATOM	1034	CD	GLN	A	133	26.840	61.441	75.431	1.00	20.98	C
ATOM	1035	OE1	GLN	A	133	26.993	61.978	74.330	1.00	23.79	O
ATOM	1036	NE2	GLN	A	133	25.643	61.085	75.895	1.00	18.69	N
ATOM	1037	N	ILE	A	134	27.574	57.653	79.291	1.00	21.20	N
ATOM	1038	CA	ILE	A	134	27.172	57.073	80.561	1.00	22.81	C
ATOM	1039	C	ILE	A	134	28.330	56.274	81.187	1.00	23.82	C
ATOM	1040	O	ILE	A	134	28.617	56.419	82.378	1.00	22.69	O
ATOM	1041	CB	ILE	A	134	25.958	56.131	80.369	1.00	21.18	C
ATOM	1042	CG1	ILE	A	134	24.705	56.952	80.024	1.00	19.47	C
ATOM	1043	CG2	ILE	A	134	25.759	55.245	81.585	1.00	21.02	C
ATOM	1044	CD1	ILE	A	134	23.640	56.083	79.409	1.00	15.75	C
ATOM	1045	N	ALA	A	135	28.999	55.453	80.374	1.00	24.83	N
ATOM	1046	CA	ALA	A	135	30.096	54.625	80.875	1.00	25.28	C
ATOM	1047	C	ALA	A	135	31.193	55.514	81.454	1.00	26.58	C
ATOM	1048	O	ALA	A	135	31.866	55.138	82.410	1.00	28.07	O
ATOM	1049	CB	ALA	A	135	30.645	53.744	79.766	1.00	25.33	C
ATOM	1050	N	LYS	A	136	31.354	56.701	80.894	1.00	26.18	N
ATOM	1051	CA	LYS	A	136	32.360	57.615	81.407	1.00	27.54	C
ATOM	1052	C	LYS	A	136	32.021	58.107	82.822	1.00	28.46	C
ATOM	1053	O	LYS	A	136	32.875	58.077	83.708	1.00	28.43	O
ATOM	1054	CB	LYS	A	136	32.531	58.812	80.480	1.00	27.09	C
ATOM	1055	CG	LYS	A	136	33.760	59.656	80.831	1.00	27.89	C
ATOM	1056	CD	LYS	A	136	33.842	60.911	80.023	1.00	26.51	C
ATOM	1057	CE	LYS	A	136	35.279	61.395	79.847	1.00	27.32	C
ATOM	1058	NZ	LYS	A	136	35.369	62.686	79.060	1.00	28.57	N
ATOM	1059	N	ILE	A	137	30.789	58.564	83.052	1.00	28.01	N
ATOM	1060	CA	ILE	A	137	30.449	59.034	84.394	1.00	27.74	C
ATOM	1061	C	ILE	A	137	30.235	57.888	85.366	1.00	27.80	C
ATOM	1062	O	ILE	A	137	30.184	58.104	86.572	1.00	27.84	O
ATOM	1063	CB	ILE	A	137	29.179	59.916	84.439	1.00	26.93	C
ATOM	1064	CG1	ILE	A	137	27.949	59.076	84.129	1.00	26.12	C
ATOM	1065	CG2	ILE	A	137	29.341	61.099	83.538	1.00	26.87	C
ATOM	1066	CD1	ILE	A	137	26.652	59.814	84.271	1.00	26.63	C
ATOM	1067	N	GLU	A	138	30.092	56.670	84.863	1.00	27.11	N
ATOM	1068	CA	GLU	A	138	29.897	55.550	85.763	1.00	28.35	C
ATOM	1069	C	GLU	A	138	31.252	54.877	86.048	1.00	30.43	C
ATOM	1070	O	GLU	A	138	31.339	53.969	86.871	1.00	30.07	O
ATOM	1071	CB	GLU	A	138	28.898	54.542	85.161	1.00	28.35	C
ATOM	1072	CG	GLU	A	138	27.438	55.069	85.049	1.00	27.20	C
ATOM	1073	CD	GLU	A	138	26.425	53.958	84.741	1.00	26.87	C
ATOM	1074	OE1	GLU	A	138	26.814	52.974	84.093	1.00	29.73	O
ATOM	1075	OE2	GLU	A	138	25.245	54.062	85.126	1.00	26.56	O
ATOM	1076	N	GLY	A	139	32.299	55.359	85.385	1.00	31.87	N
ATOM	1077	CA	GLY	A	139	33.614	54.758	85.524	1.00	34.68	C
ATOM	1078	C	GLY	A	139	33.641	53.324	84.998	1.00	35.48	C
ATOM	1079	O	GLY	A	139	34.431	52.483	85.461	1.00	34.47	O
ATOM	1080	N	ASP	A	140	32.785	53.041	84.017	1.00	35.47	N
ATOM	1081	CA	ASP	A	140	32.693	51.712	83.405	1.00	35.10	C
ATOM	1082	C	ASP	A	140	33.698	51.524	82.262	1.00	35.62	C
ATOM	1083	O	ASP	A	140	33.595	52.187	81.229	1.00	32.18	O
ATOM	1084	CB	ASP	A	140	31.292	51.495	82.849	1.00	35.60	C
ATOM	1085	CG	ASP	A	140	31.109	50.117	82.267	1.00	35.31	C
ATOM	1086	OD1	ASP	A	140	32.112	49.384	82.137	1.00	35.55	O
ATOM	1087	OD2	ASP	A	140	29.960	49.770	81.946	1.00	34.94	O
ATOM	1088	N	THR	A	141	34.651	50.605	82.449	1.00	35.61	N
ATOM	1089	CA	THR	A	141	35.662	50.324	81.439	1.00	36.30	C
ATOM	1090	C	THR	A	141	35.435	48.954	80.821	1.00	36.02	C
ATOM	1091	O	THR	A	141	36.265	48.463	80.061	1.00	35.99	O
ATOM	1092	CB	THR	A	141	37.142	50.396	82.023	1.00	38.40	C
ATOM	1093	OG1	THR	A	141	37.319	49.424	83.067	1.00	39.34	O
ATOM	1094	CG2	THR	A	141	37.446	51.800	82.560	1.00	37.92	C
ATOM	1095	N	SER	A	142	34.296	48.345	81.118	1.00	35.44	N
ATOM	1096	CA	SER	A	142	33.998	47.035	80.581	1.00	36.45	C
ATOM	1097	C	SER	A	142	34.009	46.987	79.040	1.00	36.37	C
ATOM	1098	O	SER	A	142	34.141	45.909	78.461	1.00	38.44	O
ATOM	1099	CB	SER	A	142	32.652	46.540	81.117	1.00	36.23	C
ATOM	1100	OG	SER	A	142	31.572	46.990	80.323	1.00	40.37	O
ATOM	1101	N	VAL	A	143	33.864	48.140	78.386	1.00	34.30	N
ATOM	1102	CA	VAL	A	143	33.881	48.209	76.927	1.00	32.20	C
ATOM	1103	C	VAL	A	143	34.990	49.150	76.461	1.00	31.89	C
ATOM	1104	O	VAL	A	143	35.050	50.320	76.833	1.00	30.27	O
ATOM	1105	CB	VAL	A	143	32.525	48.714	76.333	1.00	32.22	C
ATOM	1106	CG1	VAL	A	143	32.672	48.948	74.834	1.00	29.83	C
ATOM	1107	CG2	VAL	A	143	31.443	47.705	76.568	1.00	31.72	C
ATOM	1108	N	GLU	A	144	35.866	48.640	75.619	1.00	31.85	N
ATOM	1109	CA	GLU	A	144	36.968	49.452	75.140	1.00	32.70	C
ATOM	1110	C	GLU	A	144	36.571	50.534	74.138	1.00	31.03	C
ATOM	1111	O	GLU	A	144	37.061	51.669	74.216	1.00	31.71	O
ATOM	1112	CB	GLU	A	144	38.038	48.550	74.518	1.00	36.25	C
ATOM	1113	CG	GLU	A	144	37.730	47.042	74.567	1.00	40.16	C



ATOM	1114	CD	GLU	A	144	36.434	46.643	73.845	1.00	44.18	C
ATOM	1115	OE1	GLU	A	144	36.226	47.085	72.677	1.00	45.90	O
ATOM	1116	OE2	GLU	A	144	35.628	45.880	74.447	1.00	43.12	O
ATOM	1117	N	ASN	A	145	35.698	50.197	73.189	1.00	28.66	N
ATOM	1118	CA	ASN	A	145	35.275	51.170	72.175	1.00	27.25	C
ATOM	1119	C	ASN	A	145	33.764	51.093	72.000	1.00	26.45	C
ATOM	1120	O	ASN	A	145	33.256	50.125	71.408	1.00	26.28	O
ATOM	1121	CB	ASN	A	145	35.925	50.846	70.828	1.00	28.20	C
ATOM	1122	CG	ASN	A	145	35.461	51.771	69.719	1.00	28.37	C
ATOM	1123	OD1	ASN	A	145	35.472	51.403	68.532	1.00	30.86	O
ATOM	1124	ND2	ASN	A	145	35.063	52.974	70.087	1.00	26.02	N
ATOM	1125	N	TRP	A	146	33.044	52.061	72.557	1.00	25.01	N
ATOM	1126	CA	TRP	A	146	31.580	52.077	72.419	1.00	24.09	C
ATOM	1127	C	TRP	A	146	31.206	52.426	70.981	1.00	23.11	C
ATOM	1128	O	TRP	A	146	30.221	51.927	70.459	1.00	22.77	O
ATOM	1129	CB	TRP	A	146	30.950	53.094	73.370	1.00	22.08	C
ATOM	1130	CG	TRP	A	146	30.695	52.515	74.706	1.00	22.70	C
ATOM	1131	CD1	TRP	A	146	31.392	52.744	75.857	1.00	22.33	C
ATOM	1132	CD2	TRP	A	146	29.687	51.549	75.029	1.00	22.31	C
ATOM	1133	NE1	TRP	A	146	30.886	51.972	76.872	1.00	23.03	N
ATOM	1134	CE2	TRP	A	146	29.834	51.236	76.390	1.00	21.33	C
ATOM	1135	CE3	TRP	A	146	28.673	50.919	74.291	1.00	20.97	C
ATOM	1136	CZ2	TRP	A	146	29.002	50.325	77.040	1.00	22.52	C
ATOM	1137	CZ3	TRP	A	146	27.846	50.008	74.941	1.00	21.84	C
ATOM	1138	CH2	TRP	A	146	28.014	49.721	76.299	1.00	21.88	C
ATOM	1139	N	LEU	A	147	31.995	53.284	70.343	1.00	23.35	N
ATOM	1140	CA	LEU	A	147	31.703	53.646	68.960	1.00	25.00	C
ATOM	1141	C	LEU	A	147	32.175	52.619	67.938	1.00	23.99	C
ATOM	1142	O	LEU	A	147	33.063	52.905	67.156	1.00	25.68	O
ATOM	1143	CB	LEU	A	147	32.321	54.985	68.626	1.00	25.22	C
ATOM	1144	CG	LEU	A	147	31.431	56.117	69.118	1.00	27.90	C
ATOM	1145	CD1	LEU	A	147	32.203	57.370	68.964	1.00	28.91	C
ATOM	1146	CD2	LEU	A	147	30.107	56.181	68.309	1.00	27.11	C
ATOM	1147	N	ALA	A	148	31.581	51.434	67.968	1.00	22.30	N
ATOM	1148	CA	ALA	A	148	31.898	50.381	67.009	1.00	21.96	C
ATOM	1149	C	ALA	A	148	31.589	50.882	65.582	1.00	21.99	C
ATOM	1150	O	ALA	A	148	30.630	51.652	65.368	1.00	21.52	O
ATOM	1151	CB	ALA	A	148	31.066	49.175	67.311	1.00	20.88	C
ATOM	1152	N	PRO	A	149	32.413	50.500	64.594	1.00	21.20	N
ATOM	1153	CA	PRO	A	149	32.121	50.965	63.232	1.00	20.96	C
ATOM	1154	C	PRO	A	149	30.824	50.317	62.723	1.00	19.53	C
ATOM	1155	O	PRO	A	149	30.530	49.176	63.022	1.00	20.92	O
ATOM	1156	CB	PRO	A	149	33.320	50.467	62.440	1.00	21.51	C
ATOM	1157	CG	PRO	A	149	33.606	49.143	63.101	1.00	22.14	C
ATOM	1158	CD	PRO	A	149	33.578	49.593	64.587	1.00	22.56	C
ATOM	1159	N	ILE	A	150	30.072	51.083	61.932	1.00	20.78	N
ATOM	1160	CA	ILE	A	150	28.821	50.619	61.341	1.00	18.06	C
ATOM	1161	C	ILE	A	150	29.044	50.351	59.847	1.00	17.43	C
ATOM	1162	O	ILE	A	150	29.627	51.171	59.149	1.00	16.16	O
ATOM	1163	CB	ILE	A	150	27.733	51.728	61.460	1.00	18.30	C
ATOM	1164	CG1	ILE	A	150	27.422	52.002	62.934	1.00	17.82	C
ATOM	1165	CG2	ILE	A	150	26.456	51.298	60.722	1.00	18.12	C
ATOM	1166	CD1	ILE	A	150	26.848	53.356	63.153	1.00	16.84	C
ATOM	1167	N	VAL	A	151	28.533	49.230	59.357	1.00	17.17	N
ATOM	1168	CA	VAL	A	151	28.653	48.913	57.934	1.00	18.41	C
ATOM	1169	C	VAL	A	151	27.217	48.955	57.489	1.00	17.78	C
ATOM	1170	O	VAL	A	151	26.409	48.204	58.015	1.00	20.09	O
ATOM	1171	CB	VAL	A	151	29.209	47.485	57.716	1.00	19.05	C
ATOM	1172	CG1	VAL	A	151	28.970	47.043	56.272	1.00	21.19	C
ATOM	1173	CG2	VAL	A	151	30.690	47.477	58.041	1.00	20.00	C
ATOM	1174	N	ALA	A	152	26.893	49.807	56.527	1.00	18.94	N
ATOM	1175	CA	ALA	A	152	25.484	49.909	56.130	1.00	16.95	C
ATOM	1176	C	ALA	A	152	25.184	49.596	54.686	1.00	17.61	C
ATOM	1177	O	ALA	A	152	26.027	49.700	53.789	1.00	16.37	O
ATOM	1178	CB	ALA	A	152	24.945	51.292	56.452	1.00	16.98	C
ATOM	1179	N	ASP	A	153	23.905	49.286	54.501	1.00	17.30	N
ATOM	1180	CA	ASP	A	153	23.294	48.884	53.242	1.00	17.85	C
ATOM	1181	C	ASP	A	153	22.954	50.015	52.269	1.00	18.55	C
ATOM	1182	O	ASP	A	153	22.079	50.835	52.545	1.00	17.88	O
ATOM	1183	CB	ASP	A	153	22.018	48.119	53.601	1.00	17.52	C
ATOM	1184	CG	ASP	A	153	21.527	47.233	52.492	1.00	15.81	C
ATOM	1185	OD1	ASP	A	153	21.826	47.499	51.317	1.00	16.93	O
ATOM	1186	OD2	ASP	A	153	20.825	46.253	52.814	1.00	17.26	O
ATOM	1187	N	GLY	A	154	23.617	50.033	51.110	1.00	15.32	N
ATOM	1188	CA	GLY	A	154	23.352	51.059	50.139	1.00	16.21	C
ATOM	1189	C	GLY	A	154	22.469	50.508	49.048	1.00	13.32	C
ATOM	1190	O	GLY	A	154	22.204	51.172	48.076	1.00	15.67	O
ATOM	1191	N	GLU	A	155	22.020	49.271	49.246	1.00	16.77	N
ATOM	1192	CA	GLU	A	155	21.161	48.562	48.322	1.00	18.14	C
ATOM	1193	C	GLU	A	155	21.654	48.727	46.899	1.00	18.00	C



ATOM	1194	O	GLU	A	155	22.843	48.526	46.620	1.00	18.95	O
ATOM	1195	CB	GLU	A	155	19.693	49.017	48.490	1.00	19.08	C
ATOM	1196	CG	GLU	A	155	19.201	48.761	49.960	1.00	20.58	C
ATOM	1197	CD	GLU	A	155	17.688	48.682	50.131	1.00	22.67	C
ATOM	1198	OE1	GLU	A	155	16.948	49.081	49.209	1.00	22.18	O
ATOM	1199	OE2	GLU	A	155	17.238	48.230	51.206	1.00	23.65	O
ATOM	1200	N	ALA	A	156	20.782	49.097	45.991	1.00	17.51	N
ATOM	1201	CA	ALA	A	156	21.234	49.230	44.626	1.00	18.17	C
ATOM	1202	C	ALA	A	156	21.317	50.718	44.263	1.00	18.88	C
ATOM	1203	O	ALA	A	156	21.255	51.095	43.098	1.00	21.20	O
ATOM	1204	CB	ALA	A	156	20.299	48.434	43.704	1.00	16.92	C
ATOM	1205	N	GLY	A	157	21.432	51.561	45.291	1.00	16.89	N
ATOM	1206	CA	GLY	A	157	21.617	52.974	45.049	1.00	17.12	C
ATOM	1207	C	GLY	A	157	20.435	53.859	44.820	1.00	15.60	C
ATOM	1208	O	GLY	A	157	20.606	55.085	44.674	1.00	18.63	O
ATOM	1209	N	PHE	A	158	19.246	53.269	44.819	1.00	15.22	N
ATOM	1210	CA	PHE	A	158	18.005	54.053	44.611	1.00	15.91	C
ATOM	1211	C	PHE	A	158	17.994	54.917	43.335	1.00	16.78	C
ATOM	1212	O	PHE	A	158	17.404	55.989	43.315	1.00	18.26	O
ATOM	1213	CB	PHE	A	158	17.752	54.928	45.825	1.00	16.85	C
ATOM	1214	CG	PHE	A	158	17.389	54.155	47.034	1.00	18.19	C
ATOM	1215	CD1	PHE	A	158	16.078	53.732	47.240	1.00	17.88	C
ATOM	1216	CD2	PHE	A	158	18.359	53.833	47.991	1.00	18.40	C
ATOM	1217	CE1	PHE	A	158	15.736	53.014	48.371	1.00	17.17	C
ATOM	1218	CE2	PHE	A	158	18.015	53.107	49.133	1.00	19.62	C
ATOM	1219	CZ	PHE	A	158	16.707	52.702	49.320	1.00	20.49	C
ATOM	1220	N	GLY	A	159	18.684	54.465	42.290	1.00	16.53	N
ATOM	1221	CA	GLY	A	159	18.647	55.213	41.053	1.00	19.09	C
ATOM	1222	C	GLY	A	159	19.917	55.105	40.243	1.00	19.33	C
ATOM	1223	O	GLY	A	159	20.432	54.014	40.056	1.00	19.61	O
ATOM	1224	N	GLY	A	160	20.416	56.257	39.785	1.00	18.52	N
ATOM	1225	CA	GLY	A	160	21.618	56.256	38.987	1.00	19.39	C
ATOM	1226	C	GLY	A	160	22.816	56.583	39.852	1.00	21.11	C
ATOM	1227	O	GLY	A	160	22.727	56.561	41.095	1.00	19.47	O
ATOM	1228	N	ALA	A	161	23.928	56.903	39.192	1.00	19.37	N
ATOM	1229	CA	ALA	A	161	25.177	57.250	39.872	1.00	18.74	C
ATOM	1230	C	ALA	A	161	25.038	58.460	40.805	1.00	18.95	C
ATOM	1231	O	ALA	A	161	25.744	58.546	41.823	1.00	19.16	O
ATOM	1232	CB	ALA	A	161	26.303	57.506	38.793	1.00	18.28	C
ATOM	1233	N	LEU	A	162	24.151	59.393	40.475	1.00	16.82	N
ATOM	1234	CA	LEU	A	162	23.968	60.552	41.326	1.00	15.80	C
ATOM	1235	C	LEU	A	162	23.173	60.148	42.582	1.00	16.03	C
ATOM	1236	O	LEU	A	162	23.398	60.700	43.648	1.00	16.56	O
ATOM	1237	CB	LEU	A	162	23.251	61.664	40.569	1.00	17.58	C
ATOM	1238	CG	LEU	A	162	24.061	62.110	39.358	1.00	20.43	C
ATOM	1239	CD1	LEU	A	162	23.306	63.220	38.640	1.00	19.05	C
ATOM	1240	CD2	LEU	A	162	25.470	62.568	39.824	1.00	20.91	C
ATOM	1241	N	ASN	A	163	22.248	59.191	42.473	1.00	15.54	N
ATOM	1242	CA	ASN	A	163	21.508	58.776	43.661	1.00	15.05	C
ATOM	1243	C	ASN	A	163	22.460	58.023	44.571	1.00	15.21	C
ATOM	1244	O	ASN	A	163	22.395	58.148	45.804	1.00	15.56	O
ATOM	1245	CB	ASN	A	163	20.318	57.871	43.305	1.00	16.64	C
ATOM	1246	CG	ASN	A	163	19.284	58.574	42.462	1.00	15.79	C
ATOM	1247	OD1	ASN	A	163	18.294	59.149	42.994	1.00	18.59	O
ATOM	1248	ND2	ASN	A	163	19.482	58.546	41.149	1.00	13.48	N
ATOM	1249	N	VAL	A	164	23.363	57.252	43.963	1.00	14.76	N
ATOM	1250	CA	VAL	A	164	24.363	56.493	44.721	1.00	17.08	C
ATOM	1251	C	VAL	A	164	25.215	57.482	45.487	1.00	18.01	C
ATOM	1252	O	VAL	A	164	25.464	57.327	46.692	1.00	18.33	O
ATOM	1253	CB	VAL	A	164	25.293	55.657	43.775	1.00	16.72	C
ATOM	1254	CG1	VAL	A	164	26.618	55.288	44.468	1.00	18.56	C
ATOM	1255	CG2	VAL	A	164	24.550	54.381	43.367	1.00	19.02	C
ATOM	1256	N	TYR	A	165	25.623	58.529	44.785	1.00	17.74	N
ATOM	1257	CA	TYR	A	165	26.491	59.533	45.377	1.00	18.54	C
ATOM	1258	C	TYR	A	165	25.827	60.165	46.575	1.00	17.65	C
ATOM	1259	O	TYR	A	165	26.413	60.251	47.654	1.00	18.52	O
ATOM	1260	CB	TYR	A	165	26.846	60.589	44.318	1.00	19.29	C
ATOM	1261	CG	TYR	A	165	27.765	61.694	44.827	1.00	20.19	C
ATOM	1262	CD1	TYR	A	165	27.248	62.785	45.519	1.00	20.62	C
ATOM	1263	CD2	TYR	A	165	29.153	61.634	44.619	1.00	21.99	C
ATOM	1264	CE1	TYR	A	165	28.066	63.791	45.996	1.00	21.76	C
ATOM	1265	CE2	TYR	A	165	30.007	62.666	45.101	1.00	21.07	C
ATOM	1266	CZ	TYR	A	165	29.458	63.732	45.777	1.00	22.98	C
ATOM	1267	OH	TYR	A	165	30.228	64.802	46.207	1.00	26.05	O
ATOM	1268	N	GLU	A	166	24.586	60.574	46.410	1.00	16.62	N
ATOM	1269	CA	GLU	A	166	23.900	61.218	47.504	1.00	15.04	C
ATOM	1270	C	GLU	A	166	23.677	60.306	48.710	1.00	14.17	C
ATOM	1271	O	GLU	A	166	23.698	60.783	49.851	1.00	12.59	O
ATOM	1272	CB	GLU	A	166	22.562	61.800	47.025	1.00	13.97	C
ATOM	1273	CG	GLU	A	166	22.680	63.071	46.214	1.00	15.79	C



ATOM	1274	CD	GLU	A	166	23.459	64.149	46.964	1.00	19.67	C
ATOM	1275	OE1	GLU	A	166	23.062	64.504	48.102	1.00	19.71	O
ATOM	1276	OE2	GLU	A	166	24.472	64.624	46.403	1.00	18.92	O
ATOM	1277	N	LEU	A	167	23.484	59.004	48.472	1.00	16.07	N
ATOM	1278	CA	LEU	A	167	23.233	58.089	49.570	1.00	15.15	C
ATOM	1279	C	LEU	A	167	24.555	57.936	50.321	1.00	15.96	C
ATOM	1280	O	LEU	A	167	24.598	58.046	51.552	1.00	14.04	O
ATOM	1281	CB	LEU	A	167	22.688	56.738	49.056	1.00	12.67	C
ATOM	1282	CG	LEU	A	167	22.505	55.621	50.096	1.00	12.36	C
ATOM	1283	CD1	LEU	A	167	21.650	56.121	51.337	1.00	15.24	C
ATOM	1284	CD2	LEU	A	167	21.873	54.392	49.412	1.00	13.26	C
ATOM	1285	N	GLN	A	168	25.647	57.702	49.582	1.00	16.31	N
ATOM	1286	CA	GLN	A	168	26.939	57.609	50.271	1.00	16.16	C
ATOM	1287	C	GLN	A	168	27.238	58.888	51.068	1.00	14.00	C
ATOM	1288	O	GLN	A	168	27.676	58.795	52.210	1.00	15.64	O
ATOM	1289	CB	GLN	A	168	28.089	57.366	49.286	1.00	17.45	C
ATOM	1290	CG	GLN	A	168	29.430	57.349	49.965	1.00	20.43	C
ATOM	1291	CD	GLN	A	168	29.800	55.990	50.485	1.00	21.48	C
ATOM	1292	OE1	GLN	A	168	29.057	55.377	51.230	1.00	21.98	C
ATOM	1293	NE2	GLN	A	168	30.964	55.504	50.087	1.00	21.09	N
ATOM	1294	N	LYS	A	169	27.030	60.081	50.499	1.00	16.58	N
ATOM	1295	CA	LYS	A	169	27.289	61.324	51.229	1.00	14.85	C
ATOM	1296	C	LYS	A	169	26.415	61.392	52.498	1.00	15.77	C
ATOM	1297	O	LYS	A	169	26.868	61.758	53.578	1.00	13.40	O
ATOM	1298	CB	LYS	A	169	27.057	62.557	50.328	1.00	15.20	C
ATOM	1299	CG	LYS	A	169	27.014	63.901	51.052	1.00	15.06	C
ATOM	1300	CD	LYS	A	169	26.823	65.015	50.060	1.00	16.54	C
ATOM	1301	CE	LYS	A	169	26.401	66.324	50.662	1.00	20.08	C
ATOM	1302	NZ	LYS	A	169	26.425	67.385	49.601	1.00	22.28	N
ATOM	1303	N	ALA	A	170	25.153	61.010	52.384	1.00	14.77	N
ATOM	1304	CA	ALA	A	170	24.273	61.039	53.550	1.00	14.45	C
ATOM	1305	C	ALA	A	170	24.683	59.995	54.618	1.00	15.20	C
ATOM	1306	O	ALA	A	170	24.547	60.228	55.854	1.00	16.14	O
ATOM	1307	CB	ALA	A	170	22.819	60.802	53.061	1.00	13.71	C
ATOM	1308	N	LEU	A	171	25.189	58.841	54.175	1.00	16.62	N
ATOM	1309	CA	LEU	A	171	25.617	57.808	55.116	1.00	15.24	C
ATOM	1310	C	LEU	A	171	26.817	58.330	55.878	1.00	17.13	C
ATOM	1311	O	LEU	A	171	26.949	58.108	57.072	1.00	17.58	O
ATOM	1312	CB	LEU	A	171	25.995	56.499	54.406	1.00	14.58	C
ATOM	1313	CG	LEU	A	171	24.826	55.669	53.854	1.00	12.54	C
ATOM	1314	CD1	LEU	A	171	25.408	54.553	52.932	1.00	14.00	C
ATOM	1315	CD2	LEU	A	171	24.013	55.067	55.024	1.00	12.54	C
ATOM	1316	N	ILE	A	172	27.694	59.013	55.167	1.00	16.59	N
ATOM	1317	CA	ILE	A	172	28.893	59.594	55.768	1.00	17.28	C
ATOM	1318	C	ILE	A	172	28.537	60.689	56.772	1.00	16.52	C
ATOM	1319	O	ILE	A	172	29.030	60.693	57.898	1.00	16.43	O
ATOM	1320	CB	ILE	A	172	29.814	60.132	54.630	1.00	17.32	C
ATOM	1321	CG1	ILE	A	172	30.473	58.951	53.941	1.00	17.69	C
ATOM	1322	CG2	ILE	A	172	30.909	61.083	55.162	1.00	15.45	C
ATOM	1323	CD1	ILE	A	172	31.179	59.343	52.612	1.00	13.64	C
ATOM	1324	N	ALA	A	173	27.662	61.617	56.375	1.00	16.06	N
ATOM	1325	CA	ALA	A	173	27.285	62.683	57.273	1.00	16.52	C
ATOM	1326	C	ALA	A	173	26.768	62.082	58.572	1.00	17.25	C
ATOM	1327	O	ALA	A	173	26.984	62.645	59.646	1.00	17.68	O
ATOM	1328	CB	ALA	A	173	26.240	63.572	56.640	1.00	17.55	C
ATOM	1329	N	ALA	A	174	26.142	60.908	58.478	1.00	15.09	N
ATOM	1330	CA	ALA	A	174	25.574	60.250	59.637	1.00	16.28	C
ATOM	1331	C	ALA	A	174	26.573	59.476	60.455	1.00	15.01	C
ATOM	1332	O	ALA	A	174	26.247	59.054	61.565	1.00	15.30	O
ATOM	1333	CB	ALA	A	174	24.409	59.333	59.221	1.00	14.05	C
ATOM	1334	N	GLY	A	175	27.777	59.260	59.903	1.00	16.88	N
ATOM	1335	CA	GLY	A	175	28.815	58.582	60.656	1.00	16.13	C
ATOM	1336	C	GLY	A	175	29.091	57.145	60.307	1.00	16.49	C
ATOM	1337	O	GLY	A	175	29.594	56.377	61.128	1.00	18.01	O
ATOM	1338	N	VAL	A	176	28.782	56.752	59.081	1.00	18.02	N
ATOM	1339	CA	VAL	A	176	29.005	55.358	58.689	1.00	14.49	C
ATOM	1340	C	VAL	A	176	30.484	55.054	58.513	1.00	16.35	C
ATOM	1341	O	VAL	A	176	31.232	55.930	58.158	1.00	17.97	O
ATOM	1342	CB	VAL	A	176	28.248	55.030	57.346	1.00	14.59	C
ATOM	1343	CG1	VAL	A	176	29.105	55.322	56.116	1.00	14.01	C
ATOM	1344	CG2	VAL	A	176	27.765	53.602	57.365	1.00	14.57	C
ATOM	1345	N	ALA	A	177	30.863	53.797	58.751	1.00	18.38	N
ATOM	1346	CA	ALA	A	177	32.246	53.318	58.583	1.00	19.16	C
ATOM	1347	C	ALA	A	177	32.431	52.623	57.222	1.00	20.75	C
ATOM	1348	O	ALA	A	177	33.471	52.798	56.558	1.00	21.85	O
ATOM	1349	CB	ALA	A	177	32.590	52.347	59.693	1.00	15.86	C
ATOM	1350	N	GLY	A	178	31.432	51.824	56.826	1.00	19.34	N
ATOM	1351	CA	GLY	A	178	31.496	51.124	55.554	1.00	19.74	C
ATOM	1352	C	GLY	A	178	30.122	51.032	54.890	1.00	20.61	C
ATOM	1353	O	GLY	A	178	29.109	51.136	55.571	1.00	16.64	O



ATOM	1354	N	SER	A	179	30.105	50.831	53.575	1.00	18.99	N
ATOM	1355	CA	SER	A	179	28.850	50.744	52.839	1.00	20.32	C
ATOM	1356	C	SER	A	179	28.959	49.748	51.707	1.00	20.73	C
ATOM	1357	O	SER	A	179	30.016	49.635	51.061	1.00	20.97	O
ATOM	1358	CB	SER	A	179	28.450	52.132	52.307	1.00	18.40	C
ATOM	1359	OG	SER	A	179	29.380	52.733	51.417	1.00	17.51	C
ATOM	1360	N	HIS	A	180	27.884	49.006	51.487	1.00	19.47	N
ATOM	1361	CA	HIS	A	180	27.846	48.040	50.415	1.00	19.64	C
ATOM	1362	C	HIS	A	180	26.833	48.370	49.343	1.00	20.65	C
ATOM	1363	O	HIS	A	180	25.777	48.969	49.610	1.00	19.45	O
ATOM	1364	CB	HIS	A	180	27.652	46.636	50.952	1.00	19.34	C
ATOM	1365	CG	HIS	A	180	26.346	46.386	51.639	1.00	18.84	C
ATOM	1366	ND1	HIS	A	180	25.187	46.102	50.944	1.00	19.39	N
ATOM	1367	CD2	HIS	A	180	26.068	46.128	52.942	1.00	19.60	C
ATOM	1368	CE1	HIS	A	180	24.266	45.658	51.783	1.00	17.97	C
ATOM	1369	NE2	HIS	A	180	24.780	45.657	53.003	1.00	20.72	N
ATOM	1370	N	TRP	A	181	27.169	47.943	48.130	1.00	18.53	N
ATOM	1371	CA	TRP	A	181	26.403	48.290	46.951	1.00	20.07	C
ATOM	1372	C	TRP	A	181	26.277	47.087	46.053	1.00	20.73	C
ATOM	1373	O	TRP	A	181	27.282	46.408	45.776	1.00	22.09	O
ATOM	1374	CB	TRP	A	181	27.155	49.426	46.231	1.00	16.93	C
ATOM	1375	CG	TRP	A	181	27.512	50.526	47.178	1.00	19.31	C
ATOM	1376	CD1	TRP	A	181	28.586	50.577	48.022	1.00	18.41	C
ATOM	1377	CD2	TRP	A	181	26.727	51.696	47.454	1.00	16.77	C
ATOM	1378	NE1	TRP	A	181	28.514	51.713	48.818	1.00	17.99	N
ATOM	1379	CE2	TRP	A	181	27.377	52.409	48.481	1.00	18.80	C
ATOM	1380	CE3	TRP	A	181	25.522	52.207	46.927	1.00	19.02	C
ATOM	1381	CZ2	TRP	A	181	26.874	53.607	49.004	1.00	18.06	C
ATOM	1382	CZ3	TRP	A	181	25.023	53.402	47.443	1.00	14.15	C
ATOM	1383	CH2	TRP	A	181	25.698	54.087	48.474	1.00	18.46	C
ATOM	1384	N	GLU	A	182	25.063	46.827	45.554	1.00	19.00	N
ATOM	1385	CA	GLU	A	182	24.888	45.641	44.712	1.00	19.86	C
ATOM	1386	C	GLU	A	182	24.600	45.914	43.242	1.00	19.25	C
ATOM	1387	O	GLU	A	182	24.062	46.986	42.858	1.00	18.67	O
ATOM	1388	CB	GLU	A	182	23.778	44.773	45.284	1.00	20.47	C
ATOM	1389	CG	GLU	A	182	22.440	45.474	45.201	1.00	20.24	C
ATOM	1390	CD	GLU	A	182	21.599	45.278	46.434	1.00	24.89	C
ATOM	1391	OE1	GLU	A	182	22.169	45.032	47.526	1.00	23.61	O
ATOM	1392	OE2	GLU	A	182	20.368	45.393	46.310	1.00	24.82	O
ATOM	1393	N	ASP	A	183	24.917	44.908	42.430	1.00	19.39	N
ATOM	1394	CA	ASP	A	183	24.738	45.014	41.000	1.00	19.26	C
ATOM	1395	C	ASP	A	183	23.350	44.659	40.506	1.00	20.55	C
ATOM	1396	O	ASP	A	183	23.206	43.894	39.575	1.00	20.57	O
ATOM	1397	CB	ASP	A	183	25.832	44.223	40.233	1.00	19.59	C
ATOM	1398	CG	ASP	A	183	25.930	42.735	40.626	1.00	19.25	C
ATOM	1399	OD1	ASP	A	183	25.078	42.161	41.346	1.00	21.45	O
ATOM	1400	OD2	ASP	A	183	26.906	42.095	40.149	1.00	24.59	O
ATOM	1401	N	GLN	A	184	22.332	45.265	41.126	1.00	18.10	N
ATOM	1402	CA	GLN	A	184	20.958	45.027	40.714	1.00	19.18	C
ATOM	1403	C	GLN	A	184	20.321	46.271	40.112	1.00	18.85	C
ATOM	1404	O	GLN	A	184	20.766	47.410	40.342	1.00	19.32	O
ATOM	1405	CB	GLN	A	184	20.107	44.562	41.898	1.00	18.79	C
ATOM	1406	CG	GLN	A	184	20.399	43.177	42.431	1.00	20.87	C
ATOM	1407	CD	GLN	A	184	19.405	42.778	43.518	1.00	21.02	C
ATOM	1408	OE1	GLN	A	184	18.199	42.685	43.270	1.00	17.30	O
ATOM	1409	NE2	GLN	A	184	19.910	42.541	44.726	1.00	20.14	N
ATOM	1410	N	LEU	A	185	19.274	46.054	39.323	1.00	18.41	N
ATOM	1411	CA	LEU	A	185	18.518	47.181	38.729	1.00	18.66	C
ATOM	1412	C	LEU	A	185	17.775	47.787	39.908	1.00	17.79	C
ATOM	1413	O	LEU	A	185	16.944	47.119	40.505	1.00	17.90	O
ATOM	1414	CB	LEU	A	185	17.497	46.673	37.708	1.00	17.73	C
ATOM	1415	CG	LEU	A	185	16.561	47.742	37.104	1.00	18.77	C
ATOM	1416	CD1	LEU	A	185	17.353	48.796	36.323	1.00	18.36	C
ATOM	1417	CD2	LEU	A	185	15.583	47.087	36.201	1.00	18.81	C
ATOM	1418	N	ALA	A	186	18.059	49.045	40.240	1.00	17.53	N
ATOM	1419	CA	ALA	A	186	17.446	49.687	41.420	1.00	18.71	C
ATOM	1420	C	ALA	A	186	15.922	49.559	41.478	1.00	18.80	C
ATOM	1421	O	ALA	A	186	15.365	49.191	42.506	1.00	20.21	O
ATOM	1422	CB	ALA	A	186	17.845	51.160	41.476	1.00	20.85	C
ATOM	1423	N	SER	A	187	15.271	49.828	40.351	1.00	18.65	N
ATOM	1424	CA	SER	A	187	13.813	49.748	40.256	1.00	17.80	C
ATOM	1425	C	SER	A	187	13.212	48.344	40.415	1.00	17.59	C
ATOM	1426	O	SER	A	187	12.002	48.207	40.567	1.00	18.45	O
ATOM	1427	CB	SER	A	187	13.371	50.370	38.932	1.00	16.86	C
ATOM	1428	OG	SER	A	187	13.709	49.572	37.832	1.00	17.56	C
ATOM	1429	N	GLU	A	188	14.050	47.307	40.410	1.00	15.87	N
ATOM	1430	CA	GLU	A	188	13.564	45.938	40.605	1.00	18.22	C
ATOM	1431	C	GLU	A	188	14.372	45.231	41.702	1.00	17.82	C
ATOM	1432	O	GLU	A	188	14.369	43.999	41.795	1.00	16.62	O
ATOM	1433	CB	GLU	A	188	13.654	45.153	39.288	1.00	19.27	C



ATOM	1434	CG	GLU	A	188	12.754	45.703	38.163	1.00	18.86	C
ATOM	1435	CD	GLU	A	188	11.258	45.674	38.530	1.00	22.14	C
ATOM	1436	OE1	GLU	A	188	10.873	44.883	39.419	1.00	19.99	O
ATOM	1437	OE2	GLU	A	188	10.472	46.445	37.939	1.00	23.41	O
ATOM	1438	N	LYS	A	189	15.036	46.018	42.547	1.00	18.72	N
ATOM	1439	CA	LYS	A	189	15.881	45.455	43.609	1.00	18.80	C
ATOM	1440	C	LYS	A	189	15.184	44.433	44.472	1.00	17.74	C
ATOM	1441	O	LYS	A	189	14.009	44.580	44.805	1.00	18.22	O
ATOM	1442	CB	LYS	A	189	16.444	46.585	44.500	1.00	17.60	C
ATOM	1443	CG	LYS	A	189	17.357	46.114	45.676	1.00	19.57	C
ATOM	1444	CD	LYS	A	189	16.527	45.732	46.923	1.00	21.09	C
ATOM	1445	CE	LYS	A	189	17.345	45.752	48.233	1.00	21.46	C
ATOM	1446	NZ	LYS	A	189	18.407	44.690	48.224	1.00	21.16	N
ATOM	1447	N	LYS	A	190	15.920	43.391	44.862	1.00	17.89	N
ATOM	1448	CA	LYS	A	190	15.378	42.343	45.714	1.00	17.00	C
ATOM	1449	C	LYS	A	190	16.370	41.922	46.781	1.00	18.98	C
ATOM	1450	O	LYS	A	190	17.577	42.057	46.613	1.00	19.69	O
ATOM	1451	CB	LYS	A	190	15.106	41.049	44.929	1.00	17.64	C
ATOM	1452	CG	LYS	A	190	14.117	41.135	43.766	1.00	16.06	C
ATOM	1453	CD	LYS	A	190	12.746	41.500	44.298	1.00	12.86	C
ATOM	1454	CE	LYS	A	190	11.736	41.362	43.161	1.00	14.80	C
ATOM	1455	NZ	LYS	A	190	12.121	42.151	41.929	1.00	14.44	N
ATOM	1456	N	CYS	A	191	15.825	41.414	47.879	1.00	19.52	N
ATOM	1457	CA	CYS	A	191	16.625	40.801	48.934	1.00	20.96	C
ATOM	1458	C	CYS	A	191	17.401	39.734	48.118	1.00	21.37	C
ATOM	1459	O	CYS	A	191	16.816	39.101	47.215	1.00	20.72	O
ATOM	1460	CB	CYS	A	191	15.685	40.089	49.911	1.00	21.83	C
ATOM	1461	SG	CYS	A	191	16.463	38.738	50.824	1.00	21.74	S
ATOM	1462	N	GLY	A	192	18.687	39.547	48.403	1.00	20.65	N
ATOM	1463	CA	GLY	A	192	19.440	38.521	47.676	1.00	20.67	C
ATOM	1464	C	GLY	A	192	18.827	37.113	47.669	1.00	20.40	C
ATOM	1465	O	GLY	A	192	19.168	36.257	46.811	1.00	20.34	O
ATOM	1466	N	HIS	A	193	17.916	36.857	48.597	1.00	20.24	N
ATOM	1467	CA	HIS	A	193	17.288	35.540	48.687	1.00	20.37	C
ATOM	1468	C	HIS	A	193	15.843	35.503	48.227	1.00	20.90	C
ATOM	1469	O	HIS	A	193	15.128	34.531	48.435	1.00	19.59	O
ATOM	1470	CB	HIS	A	193	17.479	35.000	50.095	1.00	23.05	C
ATOM	1471	CG	HIS	A	193	18.922	34.876	50.455	1.00	23.99	C
ATOM	1472	ND1	HIS	A	193	19.532	35.688	51.387	1.00	23.54	N
ATOM	1473	CD2	HIS	A	193	19.914	34.139	49.888	1.00	24.24	C
ATOM	1474	CE1	HIS	A	193	20.838	35.464	51.373	1.00	24.63	C
ATOM	1475	NE2	HIS	A	193	21.094	34.533	50.469	1.00	23.54	N
ATOM	1476	N	LEU	A	194	15.411	36.591	47.587	1.00	19.73	N
ATOM	1477	CA	LEU	A	194	14.071	36.625	46.987	1.00	19.17	C
ATOM	1478	C	LEU	A	194	14.277	36.328	45.492	1.00	19.15	C
ATOM	1479	O	LEU	A	194	15.397	36.423	44.989	1.00	18.96	O
ATOM	1480	CB	LEU	A	194	13.432	37.996	47.179	1.00	17.26	C
ATOM	1481	CG	LEU	A	194	12.847	38.238	48.587	1.00	15.69	C
ATOM	1482	CD1	LEU	A	194	12.260	39.674	48.663	1.00	14.28	C
ATOM	1483	CD2	LEU	A	194	11.759	37.273	48.874	1.00	14.82	C
ATOM	1484	N	GLY	A	195	13.224	35.936	44.786	1.00	19.46	N
ATOM	1485	CA	GLY	A	195	13.375	35.689	43.354	1.00	18.52	C
ATOM	1486	C	GLY	A	195	13.128	36.974	42.576	1.00	19.84	C
ATOM	1487	O	GLY	A	195	12.972	38.041	43.192	1.00	15.96	O
ATOM	1488	N	GLY	A	196	13.108	36.885	41.242	1.00	19.99	N
ATOM	1489	CA	GLY	A	196	12.854	38.063	40.414	1.00	21.58	C
ATOM	1490	C	GLY	A	196	13.934	39.129	40.375	1.00	20.83	C
ATOM	1491	O	GLY	A	196	13.650	40.324	40.181	1.00	21.59	O
ATOM	1492	N	LYS	A	197	15.182	38.718	40.550	1.00	21.36	N
ATOM	1493	CA	LYS	A	197	16.290	39.669	40.532	1.00	18.26	C
ATOM	1494	C	LYS	A	197	16.768	39.994	39.127	1.00	17.76	C
ATOM	1495	O	LYS	A	197	16.721	39.152	38.224	1.00	19.09	O
ATOM	1496	CB	LYS	A	197	17.452	39.125	41.374	1.00	18.66	C
ATOM	1497	CG	LYS	A	197	17.108	38.931	42.886	1.00	17.09	C
ATOM	1498	CD	LYS	A	197	18.353	38.812	43.786	1.00	18.95	C
ATOM	1499	CE	LYS	A	197	19.286	37.682	43.371	1.00	18.98	C
ATOM	1500	NZ	LYS	A	197	20.276	37.425	44.482	1.00	17.94	N
ATOM	1501	N	VAL	A	198	17.233	41.222	38.935	1.00	16.93	N
ATOM	1502	CA	VAL	A	198	17.708	41.685	37.630	1.00	16.38	C
ATOM	1503	C	VAL	A	198	19.043	42.377	37.790	1.00	16.85	C
ATOM	1504	O	VAL	A	198	19.123	43.408	38.458	1.00	16.34	O
ATOM	1505	CB	VAL	A	198	16.733	42.726	36.987	1.00	16.23	C
ATOM	1506	CG1	VAL	A	198	17.216	43.132	35.605	1.00	16.06	C
ATOM	1507	CG2	VAL	A	198	15.307	42.128	36.898	1.00	17.04	C
ATOM	1508	N	LEU	A	199	20.085	41.825	37.170	1.00	17.02	N
ATOM	1509	CA	LEU	A	199	21.427	42.431	37.225	1.00	17.54	C
ATOM	1510	C	LEU	A	199	21.554	43.611	36.283	1.00	18.12	C
ATOM	1511	O	LEU	A	199	20.795	43.729	35.305	1.00	19.11	O
ATOM	1512	CB	LEU	A	199	22.489	41.409	36.788	1.00	16.37	C
ATOM	1513	CG	LEU	A	199	22.543	40.074	37.511	1.00	15.32	C



ATOM	1514	CD1	LEU	A	199	23.648	39.221	36.873	1.00	17.54	C
ATOM	1515	CD2	LEU	A	199	22.833	40.272	38.973	1.00	13.95	C
ATOM	1516	N	ILE	A	200	22.504	44.504	36.566	1.00	19.13	N
ATOM	1517	CA	ILE	A	200	22.780	45.599	35.655	1.00	20.04	C
ATOM	1518	C	ILE	A	200	24.141	45.205	35.035	1.00	20.70	C
ATOM	1519	O	ILE	A	200	24.802	44.283	35.538	1.00	19.65	O
ATOM	1520	CB	ILE	A	200	22.786	46.999	36.351	1.00	19.61	C
ATOM	1521	CG1	ILE	A	200	23.332	46.943	37.768	1.00	19.12	C
ATOM	1522	CG2	ILE	A	200	21.368	47.494	36.472	1.00	20.85	C
ATOM	1523	CD1	ILE	A	200	24.775	46.761	37.844	1.00	24.59	C
ATOM	1524	N	PRO	A	201	24.538	45.834	33.915	1.00	21.65	N
ATOM	1525	CA	PRO	A	201	25.827	45.484	33.267	1.00	22.34	C
ATOM	1526	C	PRO	A	201	27.035	45.649	34.207	1.00	22.68	C
ATOM	1527	O	PRO	A	201	27.024	46.470	35.107	1.00	21.55	O
ATOM	1528	CB	PRO	A	201	25.910	46.448	32.091	1.00	22.54	C
ATOM	1529	CG	PRO	A	201	24.455	46.777	31.788	1.00	23.63	C
ATOM	1530	CD	PRO	A	201	23.828	46.887	33.164	1.00	21.59	C
ATOM	1531	N	THR	A	202	28.073	44.853	33.990	1.00	23.68	N
ATOM	1532	CA	THR	A	202	29.278	44.954	34.813	1.00	22.13	C
ATOM	1533	C	THR	A	202	29.797	46.408	34.921	1.00	22.19	C
ATOM	1534	O	THR	A	202	30.124	46.881	36.018	1.00	21.42	O
ATOM	1535	CB	THR	A	202	30.431	44.023	34.240	1.00	21.39	C
ATOM	1536	OG1	THR	A	202	30.106	42.645	34.481	1.00	20.86	O
ATOM	1537	CG2	THR	A	202	31.785	44.340	34.914	1.00	22.17	C
ATOM	1538	N	GLN	A	203	29.883	47.128	33.804	1.00	22.14	N
ATOM	1539	CA	GLN	A	203	30.393	48.488	33.853	1.00	22.31	C
ATOM	1540	C	GLN	A	203	29.465	49.447	34.608	1.00	22.81	C
ATOM	1541	O	GLN	A	203	29.904	50.478	35.182	1.00	21.16	O
ATOM	1542	CB	GLN	A	203	30.650	48.999	32.442	1.00	22.94	C
ATOM	1543	CG	GLN	A	203	31.273	50.374	32.389	1.00	25.05	C
ATOM	1544	CD	GLN	A	203	32.661	50.434	33.064	1.00	26.87	C
ATOM	1545	OE1	GLN	A	203	33.367	49.421	33.160	1.00	25.51	O
ATOM	1546	NE2	GLN	A	203	33.052	51.633	33.509	1.00	28.31	N
ATOM	1547	N	GLN	A	204	28.174	49.132	34.617	1.00	21.27	N
ATOM	1548	CA	GLN	A	204	27.278	50.011	35.348	1.00	20.75	C
ATOM	1549	C	GLN	A	204	27.600	49.885	36.835	1.00	20.03	C
ATOM	1550	O	GLN	A	204	27.612	50.897	37.532	1.00	19.81	O
ATOM	1551	CB	GLN	A	204	25.788	49.686	35.077	1.00	22.43	C
ATOM	1552	CG	GLN	A	204	24.815	50.754	35.626	1.00	23.52	C
ATOM	1553	CD	GLN	A	204	23.356	50.547	35.172	1.00	24.69	C
ATOM	1554	OE1	GLN	A	204	23.084	50.189	34.021	1.00	25.18	C
ATOM	1555	NE2	GLN	A	204	22.423	50.791	36.074	1.00	26.41	N
ATOM	1556	N	HIS	A	205	27.874	48.679	37.336	1.00	21.64	N
ATOM	1557	CA	HIS	A	205	28.202	48.599	38.756	1.00	21.39	C
ATOM	1558	C	HIS	A	205	29.562	49.219	39.050	1.00	23.16	C
ATOM	1559	O	HIS	A	205	29.770	49.752	40.145	1.00	23.04	O
ATOM	1560	CB	HIS	A	205	28.167	47.175	39.318	1.00	21.68	C
ATOM	1561	CG	HIS	A	205	27.935	47.150	40.793	1.00	20.38	C
ATOM	1562	ND1	HIS	A	205	28.661	46.362	41.660	1.00	23.39	N
ATOM	1563	CD2	HIS	A	205	27.091	47.877	41.558	1.00	20.49	C
ATOM	1564	CE1	HIS	A	205	28.275	46.613	42.902	1.00	20.18	C
ATOM	1565	NE2	HIS	A	205	27.325	47.529	42.866	1.00	24.25	N
ATOM	1566	N	ILE	A	206	30.488	49.165	38.093	1.00	22.85	N
ATOM	1567	CA	ILE	A	206	31.765	49.813	38.319	1.00	22.71	C
ATOM	1568	C	ILE	A	206	31.463	51.305	38.465	1.00	21.88	C
ATOM	1569	O	ILE	A	206	32.055	51.967	39.302	1.00	24.75	O
ATOM	1570	CB	ILE	A	206	32.786	49.511	37.149	1.00	23.00	C
ATOM	1571	CG1	ILE	A	206	33.416	48.131	37.362	1.00	22.79	C
ATOM	1572	CG2	ILE	A	206	33.876	50.566	37.094	1.00	23.32	C
ATOM	1573	CD1	ILE	A	206	34.099	47.473	36.143	1.00	24.40	C
ATOM	1574	N	ARG	A	207	30.523	51.852	37.702	1.00	21.70	N
ATOM	1575	CA	ARG	A	207	30.206	53.270	37.861	1.00	21.67	C
ATOM	1576	C	ARG	A	207	29.662	53.502	39.286	1.00	19.64	C
ATOM	1577	O	ARG	A	207	30.000	54.487	39.924	1.00	20.85	O
ATOM	1578	CB	ARG	A	207	29.173	53.779	36.814	1.00	22.92	C
ATOM	1579	CG	ARG	A	207	29.726	54.001	35.384	1.00	26.68	C
ATOM	1580	CD	ARG	A	207	28.805	54.905	34.534	1.00	32.04	C
ATOM	1581	NE	ARG	A	207	27.630	54.178	34.031	1.00	32.56	N
ATOM	1582	CZ	ARG	A	207	27.694	53.222	33.106	1.00	34.52	C
ATOM	1583	NH1	ARG	A	207	28.871	52.889	32.586	1.00	33.30	N
ATOM	1584	NH2	ARG	A	207	26.591	52.596	32.706	1.00	32.15	N
ATOM	1585	N	THR	A	208	28.832	52.594	39.773	1.00	19.29	N
ATOM	1586	CA	THR	A	208	28.283	52.735	41.122	1.00	19.45	C
ATOM	1587	C	THR	A	208	29.419	52.789	42.146	1.00	18.80	C
ATOM	1588	O	THR	A	208	29.498	53.705	42.961	1.00	17.09	O
ATOM	1589	CB	THR	A	208	27.340	51.539	41.462	1.00	21.75	C
ATOM	1590	OG1	THR	A	208	26.145	51.632	40.668	1.00	17.74	O
ATOM	1591	CG2	THR	A	208	26.981	51.522	42.924	1.00	21.34	C
ATOM	1592	N	LEU	A	209	30.286	51.784	42.097	1.00	18.54	N
ATOM	1593	CA	LEU	A	209	31.397	51.736	43.023	1.00	20.59	C



ATOM	1594	C	LEU	A	209	32.314	52.972	42.933	1.00	20.37	C
ATOM	1595	O	LEU	A	209	32.830	53.426	43.972	1.00	21.32	O
ATOM	1596	CB	LEU	A	209	32.167	50.410	42.840	1.00	19.87	C
ATOM	1597	CG	LEU	A	209	31.397	49.106	43.127	1.00	22.14	C
ATOM	1598	CD1	LEU	A	209	32.127	47.912	42.539	1.00	20.30	C
ATOM	1599	CD2	LEU	A	209	31.187	48.917	44.641	1.00	20.24	C
ATOM	1600	N	THR	A	210	32.495	53.527	41.729	1.00	19.68	N
ATOM	1601	CA	THR	A	210	33.323	54.731	41.515	1.00	19.07	C
ATOM	1602	C	THR	A	210	32.612	55.941	42.152	1.00	21.72	C
ATOM	1603	O	THR	A	210	33.244	56.849	42.740	1.00	21.32	O
ATOM	1604	CB	THR	A	210	33.500	54.992	39.980	1.00	20.40	C
ATOM	1605	OG1	THR	A	210	34.243	53.916	39.390	1.00	22.00	O
ATOM	1606	CG2	THR	A	210	34.192	56.307	39.704	1.00	18.12	C
ATOM	1607	N	SER	A	211	31.288	55.974	41.998	1.00	18.66	N
ATOM	1608	CA	SER	A	211	30.474	57.038	42.588	1.00	19.00	C
ATOM	1609	C	SER	A	211	30.588	57.021	44.147	1.00	18.05	C
ATOM	1610	O	SER	A	211	30.721	58.080	44.785	1.00	21.79	O
ATOM	1611	CB	SER	A	211	28.992	56.861	42.156	1.00	18.65	C
ATOM	1612	OG	SER	A	211	28.210	58.023	42.472	1.00	20.46	O
ATOM	1613	N	ALA	A	212	30.472	55.838	44.743	1.00	19.99	N
ATOM	1614	CA	ALA	A	212	30.569	55.646	46.197	1.00	20.11	C
ATOM	1615	C	ALA	A	212	31.958	56.063	46.693	1.00	21.26	C
ATOM	1616	O	ALA	A	212	32.093	56.629	47.783	1.00	19.17	O
ATOM	1617	CB	ALA	A	212	30.330	54.210	46.546	1.00	17.40	C
ATOM	1618	N	ARG	A	213	32.994	55.758	45.903	1.00	22.12	N
ATOM	1619	CA	ARG	A	213	34.335	56.176	46.304	1.00	21.31	C
ATOM	1620	C	ARG	A	213	34.483	57.685	46.186	1.00	21.06	C
ATOM	1621	O	ARG	A	213	35.011	58.298	47.112	1.00	22.15	O
ATOM	1622	CB	ARG	A	213	35.418	55.514	45.458	1.00	23.24	C
ATOM	1623	CG	ARG	A	213	36.821	55.927	45.907	1.00	24.94	C
ATOM	1624	CD	ARG	A	213	37.192	55.252	47.226	1.00	24.50	C
ATOM	1625	NE	ARG	A	213	37.379	53.844	46.917	1.00	26.86	N
ATOM	1626	CZ	ARG	A	213	37.359	52.851	47.794	1.00	28.63	C
ATOM	1627	NH1	ARG	A	213	37.151	53.100	49.083	1.00	28.56	N
ATOM	1628	NH2	ARG	A	213	37.536	51.602	47.364	1.00	27.29	N
ATOM	1629	N	LEU	A	214	34.024	58.280	45.077	1.00	20.35	N
ATOM	1630	CA	LEU	A	214	34.090	59.740	44.883	1.00	19.65	C
ATOM	1631	C	LEU	A	214	33.364	60.553	45.981	1.00	22.18	C
ATOM	1632	O	LEU	A	214	33.867	61.604	46.448	1.00	21.11	O
ATOM	1633	CB	LEU	A	214	33.530	60.168	43.502	1.00	18.20	C
ATOM	1634	CG	LEU	A	214	33.431	61.697	43.267	1.00	19.73	C
ATOM	1635	CD1	LEU	A	214	34.833	62.273	43.091	1.00	20.83	C
ATOM	1636	CD2	LEU	A	214	32.609	62.031	42.009	1.00	21.37	C
ATOM	1637	N	ALA	A	215	32.179	60.108	46.395	1.00	20.10	N
ATOM	1638	CA	ALA	A	215	31.496	60.837	47.453	1.00	21.34	C
ATOM	1639	C	ALA	A	215	32.337	60.760	48.747	1.00	19.40	C
ATOM	1640	O	ALA	A	215	32.396	61.741	49.507	1.00	21.82	O
ATOM	1641	CB	ALA	A	215	30.095	60.256	47.694	1.00	19.16	C
ATOM	1642	N	ALA	A	216	32.976	59.624	48.999	1.00	18.30	N
ATOM	1643	CA	ALA	A	216	33.797	59.507	50.193	1.00	19.75	C
ATOM	1644	C	ALA	A	216	35.026	60.419	50.102	1.00	21.24	C
ATOM	1645	O	ALA	A	216	35.419	60.988	51.106	1.00	22.03	O
ATOM	1646	CB	ALA	A	216	34.200	58.070	50.452	1.00	19.41	C
ATOM	1647	N	ASP	A	217	35.601	60.597	48.909	1.00	22.75	N
ATOM	1648	CA	ASP	A	217	36.770	61.475	48.747	1.00	22.47	C
ATOM	1649	C	ASP	A	217	36.373	62.924	48.872	1.00	23.67	C
ATOM	1650	O	ASP	A	217	37.057	63.702	49.533	1.00	24.14	O
ATOM	1651	CB	ASP	A	217	37.467	61.258	47.392	1.00	23.40	C
ATOM	1652	CG	ASP	A	217	38.157	59.898	47.293	1.00	22.68	C
ATOM	1653	OD1	ASP	A	217	38.549	59.344	48.329	1.00	25.31	O
ATOM	1654	OD2	ASP	A	217	38.338	59.357	46.163	1.00	27.90	O
ATOM	1655	N	VAL	A	218	35.263	63.305	48.251	1.00	21.61	N
ATOM	1656	CA	VAL	A	218	34.826	64.680	48.335	1.00	21.36	C
ATOM	1657	C	VAL	A	218	34.487	65.015	49.798	1.00	21.55	C
ATOM	1658	O	VAL	A	218	34.601	66.163	50.205	1.00	23.24	O
ATOM	1659	CB	VAL	A	218	33.595	64.932	47.413	1.00	21.06	C
ATOM	1660	CG1	VAL	A	218	32.915	66.302	47.740	1.00	22.10	C
ATOM	1661	CG2	VAL	A	218	34.034	64.911	45.941	1.00	21.23	C
ATOM	1662	N	ALA	A	219	34.087	64.016	50.573	1.00	20.61	N
ATOM	1663	CA	ALA	A	219	33.718	64.221	51.985	1.00	22.76	C
ATOM	1664	C	ALA	A	219	34.953	64.087	52.841	1.00	24.55	C
ATOM	1665	O	ALA	A	219	34.896	64.300	54.037	1.00	23.45	O
ATOM	1666	CB	ALA	A	219	32.679	63.167	52.448	1.00	21.15	C
ATOM	1667	N	ASP	A	220	36.056	63.693	52.202	1.00	25.94	N
ATOM	1668	CA	ASP	A	220	37.365	63.503	52.849	1.00	27.25	C
ATOM	1669	C	ASP	A	220	37.433	62.469	53.974	1.00	27.62	C
ATOM	1670	O	ASP	A	220	38.070	62.702	55.008	1.00	28.03	O
ATOM	1671	CB	ASP	A	220	37.905	64.845	53.339	1.00	28.27	C
ATOM	1672	CG	ASP	A	220	39.356	64.751	53.824	1.00	31.43	C
ATOM	1673	OD1	ASP	A	220	40.083	63.839	53.334	1.00	30.56	O



ATOM	1674	OD2	ASP	A	220	39.750	65.600	54.681	1.00	30.63	O
ATOM	1675	N	VAL	A	221	36.765	61.330	53.786	1.00	24.42	N
ATOM	1676	CA	VAL	A	221	36.817	60.263	54.761	1.00	24.56	C
ATOM	1677	C	VAL	A	221	37.092	58.972	54.021	1.00	25.36	C
ATOM	1678	O	VAL	A	221	36.572	58.737	52.923	1.00	27.78	O
ATOM	1679	CB	VAL	A	221	35.502	60.152	55.600	1.00	24.61	C
ATOM	1680	CG1	VAL	A	221	35.395	61.358	56.525	1.00	21.23	C
ATOM	1681	CG2	VAL	A	221	34.277	60.086	54.662	1.00	22.94	C
ATOM	1682	N	PRO	A	222	37.947	58.122	54.594	1.00	25.31	N
ATOM	1683	CA	PRO	A	222	38.344	56.828	54.031	1.00	23.42	C
ATOM	1684	C	PRO	A	222	37.323	55.705	54.141	1.00	22.70	C
ATOM	1685	O	PRO	A	222	37.697	54.599	54.432	1.00	19.53	O
ATOM	1686	CB	PRO	A	222	39.621	56.486	54.813	1.00	24.10	C
ATOM	1687	CG	PRO	A	222	39.338	57.081	56.183	1.00	24.71	C
ATOM	1688	CD	PRO	A	222	38.733	58.433	55.810	1.00	26.45	C
ATOM	1689	N	THR	A	223	36.043	55.998	53.889	1.00	21.54	N
ATOM	1690	CA	THR	A	223	34.980	54.977	54.002	1.00	20.32	C
ATOM	1691	C	THR	A	223	35.272	53.618	53.361	1.00	20.63	C
ATOM	1692	O	THR	A	223	35.819	53.530	52.256	1.00	21.90	O
ATOM	1693	CB	THR	A	223	33.708	55.517	53.381	1.00	18.67	C
ATOM	1694	OG1	THR	A	223	33.497	56.838	53.875	1.00	19.51	O
ATOM	1695	CG2	THR	A	223	32.513	54.611	53.697	1.00	20.08	C
ATOM	1696	N	VAL	A	224	34.910	52.536	54.028	1.00	20.69	N
ATOM	1697	CA	VAL	A	224	35.116	51.229	53.432	1.00	21.83	C
ATOM	1698	C	VAL	A	224	34.007	50.975	52.402	1.00	24.24	C
ATOM	1699	O	VAL	A	224	32.809	51.115	52.709	1.00	22.73	O
ATOM	1700	CB	VAL	A	224	35.100	50.125	54.485	1.00	21.81	C
ATOM	1701	CG1	VAL	A	224	35.180	48.756	53.829	1.00	22.73	C
ATOM	1702	CG2	VAL	A	224	36.298	50.308	55.441	1.00	23.18	C
ATOM	1703	N	VAL	A	225	34.409	50.603	51.179	1.00	24.38	N
ATOM	1704	CA	VAL	A	225	33.437	50.320	50.096	1.00	25.05	C
ATOM	1705	C	VAL	A	225	33.327	48.833	49.782	1.00	24.06	C
ATOM	1706	O	VAL	A	225	34.300	48.173	49.419	1.00	26.90	O
ATOM	1707	CB	VAL	A	225	33.788	51.105	48.828	1.00	22.56	C
ATOM	1708	CG1	VAL	A	225	32.870	50.676	47.644	1.00	23.06	C
ATOM	1709	CG2	VAL	A	225	33.647	52.577	49.115	1.00	23.40	C
ATOM	1710	N	ILE	A	226	32.124	48.292	49.937	1.00	23.39	N
ATOM	1711	CA	ILE	A	226	31.885	46.891	49.705	1.00	20.01	C
ATOM	1712	C	ILE	A	226	31.052	46.698	48.433	1.00	22.60	C
ATOM	1713	O	ILE	A	226	30.045	47.376	48.247	1.00	21.76	O
ATOM	1714	CB	ILE	A	226	31.143	46.295	50.890	1.00	20.07	C
ATOM	1715	CG1	ILE	A	226	31.954	46.523	52.179	1.00	20.42	C
ATOM	1716	CG2	ILE	A	226	30.842	44.817	50.639	1.00	18.35	C
ATOM	1717	CD1	ILE	A	226	31.209	46.082	53.431	1.00	23.66	C
ATOM	1718	N	ALA	A	227	31.484	45.762	47.582	1.00	22.62	N
ATOM	1719	CA	ALA	A	227	30.822	45.452	46.314	1.00	22.31	C
ATOM	1720	C	ALA	A	227	30.142	44.114	46.449	1.00	23.55	C
ATOM	1721	O	ALA	A	227	30.771	43.117	46.812	1.00	24.24	O
ATOM	1722	CB	ALA	A	227	31.848	45.413	45.171	1.00	22.88	C
ATOM	1723	N	ARG	A	228	28.846	44.085	46.156	1.00	22.31	N
ATOM	1724	CA	ARG	A	228	28.083	42.859	46.267	1.00	20.31	C
ATOM	1725	C	ARG	A	228	27.578	42.427	44.915	1.00	22.24	C
ATOM	1726	O	ARG	A	228	27.134	43.279	44.133	1.00	21.32	O
ATOM	1727	CB	ARG	A	228	26.872	43.061	47.176	1.00	20.50	C
ATOM	1728	CG	ARG	A	228	25.798	41.981	47.048	1.00	20.18	C
ATOM	1729	CD	ARG	A	228	24.597	42.244	47.995	1.00	22.88	C
ATOM	1730	NE	ARG	A	228	23.325	41.764	47.438	1.00	20.28	N
ATOM	1731	CZ	ARG	A	228	22.170	41.767	48.098	1.00	21.18	C
ATOM	1732	NH1	ARG	A	228	22.128	42.231	49.330	1.00	20.08	N
ATOM	1733	NH2	ARG	A	228	21.065	41.263	47.550	1.00	18.45	N
ATOM	1734	N	THR	A	229	27.625	41.118	44.637	1.00	20.55	N
ATOM	1735	CA	THR	A	229	27.079	40.640	43.367	1.00	20.66	C
ATOM	1736	C	THR	A	229	25.944	39.647	43.618	1.00	20.71	C
ATOM	1737	O	THR	A	229	26.042	38.784	44.495	1.00	20.11	O
ATOM	1738	CB	THR	A	229	28.111	39.929	42.458	1.00	21.49	C
ATOM	1739	OG1	THR	A	229	27.440	39.507	41.262	1.00	21.27	O
ATOM	1740	CG2	THR	A	229	28.705	38.671	43.160	1.00	21.20	C
ATOM	1741	N	ASP	A	230	24.867	39.778	42.843	1.00	19.83	N
ATOM	1742	CA	ASP	A	230	23.693	38.912	42.975	1.00	21.31	C
ATOM	1743	C	ASP	A	230	23.546	37.903	41.828	1.00	21.69	C
ATOM	1744	O	ASP	A	230	22.457	37.348	41.625	1.00	22.49	O
ATOM	1745	CB	ASP	A	230	22.433	39.783	43.009	1.00	21.76	C
ATOM	1746	CG	ASP	A	230	22.202	40.388	44.376	1.00	21.04	C
ATOM	1747	OD1	ASP	A	230	21.521	39.726	45.179	1.00	21.27	O
ATOM	1748	OD2	ASP	A	230	22.729	41.494	44.638	1.00	19.86	O
ATOM	1749	N	ALA	A	231	24.645	37.673	41.111	1.00	22.88	N
ATOM	1750	CA	ALA	A	231	24.676	36.795	39.926	1.00	23.90	C
ATOM	1751	C	ALA	A	231	24.555	35.304	40.180	1.00	24.72	C
ATOM	1752	O	ALA	A	231	24.360	34.529	39.233	1.00	25.53	O
ATOM	1753	CB	ALA	A	231	25.947	37.069	39.125	1.00	21.79	C



ATOM	1754	N	GLU	A	232	24.691	34.889	41.435	1.00	24.23	N
ATOM	1755	CA	GLU	A	232	24.580	33.474	41.746	1.00	24.39	C
ATOM	1756	C	GLU	A	232	23.193	32.965	41.369	1.00	25.21	C
ATOM	1757	O	GLU	A	232	23.067	31.926	40.722	1.00	25.66	O
ATOM	1758	CB	GLU	A	232	24.799	33.237	43.236	1.00	26.49	C
ATOM	1759	CG	GLU	A	232	25.154	31.782	43.631	1.00	30.17	C
ATOM	1760	CD	GLU	A	232	23.958	30.849	43.716	1.00	32.44	C
ATOM	1761	OE1	GLU	A	232	22.949	31.182	44.388	1.00	31.42	O
ATOM	1762	OE2	GLU	A	232	24.034	29.755	43.125	1.00	31.70	O
ATOM	1763	N	ALA	A	233	22.153	33.704	41.775	1.00	24.17	N
ATOM	1764	CA	ALA	A	233	20.751	33.318	41.526	1.00	22.20	C
ATOM	1765	C	ALA	A	233	20.008	34.121	40.449	1.00	23.90	C
ATOM	1766	O	ALA	A	233	18.994	33.644	39.906	1.00	24.08	O
ATOM	1767	CB	ALA	A	233	19.945	33.390	42.857	1.00	22.59	C
ATOM	1768	N	ALA	A	234	20.465	35.335	40.149	1.00	22.93	N
ATOM	1769	CA	ALA	A	234	19.768	36.154	39.146	1.00	23.29	C
ATOM	1770	C	ALA	A	234	19.766	35.553	37.733	1.00	23.07	C
ATOM	1771	O	ALA	A	234	20.839	35.236	37.181	1.00	23.28	O
ATOM	1772	CB	ALA	A	234	20.365	37.523	39.096	1.00	19.79	C
ATOM	1773	N	THR	A	235	18.570	35.454	37.144	1.00	23.06	N
ATOM	1774	CA	THR	A	235	18.404	34.912	35.797	1.00	24.12	C
ATOM	1775	C	THR	A	235	18.040	35.975	34.750	1.00	24.29	C
ATOM	1776	O	THR	A	235	17.676	35.640	33.620	1.00	25.48	O
ATOM	1777	CB	THR	A	235	17.322	33.807	35.773	1.00	24.51	C
ATOM	1778	OG1	THR	A	235	16.033	34.373	36.059	1.00	26.24	O
ATOM	1779	CG2	THR	A	235	17.617	32.767	36.822	1.00	25.78	C
ATOM	1780	N	LEU	A	236	18.120	37.249	35.126	1.00	22.13	N
ATOM	1781	CA	LEU	A	236	17.814	38.349	34.214	1.00	20.54	C
ATOM	1782	C	LEU	A	236	18.875	39.444	34.319	1.00	20.26	C
ATOM	1783	O	LEU	A	236	19.481	39.641	35.389	1.00	20.83	O
ATOM	1784	CB	LEU	A	236	16.447	38.956	34.558	1.00	20.66	C
ATOM	1785	CG	LEU	A	236	15.268	37.994	34.459	1.00	20.75	C
ATOM	1786	CD1	LEU	A	236	14.110	38.457	35.320	1.00	21.43	C
ATOM	1787	CD2	LEU	A	236	14.873	37.861	32.998	1.00	21.91	C
ATOM	1788	N	ILE	A	237	19.082	40.153	33.216	1.00	17.97	N
ATOM	1789	CA	ILE	A	237	20.008	41.272	33.157	1.00	19.28	C
ATOM	1790	C	ILE	A	237	19.371	42.341	32.263	1.00	20.64	C
ATOM	1791	O	ILE	A	237	18.590	42.021	31.328	1.00	22.83	O
ATOM	1792	CB	ILE	A	237	21.406	40.812	32.634	1.00	20.31	C
ATOM	1793	CG1	ILE	A	237	22.356	41.987	32.692	1.00	18.55	C
ATOM	1794	CG2	ILE	A	237	21.285	40.172	31.214	1.00	19.40	C
ATOM	1795	CD1	ILE	A	237	23.793	41.596	32.612	1.00	21.37	C
ATOM	1796	N	THR	A	238	19.668	43.609	32.530	1.00	20.96	N
ATOM	1797	CA	THR	A	238	19.033	44.683	31.781	1.00	21.29	C
ATOM	1798	C	THR	A	238	19.467	44.819	30.346	1.00	21.58	C
ATOM	1799	O	THR	A	238	18.670	45.192	29.492	1.00	19.43	O
ATOM	1800	CB	THR	A	238	19.265	46.047	32.425	1.00	22.30	C
ATOM	1801	OG1	THR	A	238	20.672	46.301	32.488	1.00	24.21	O
ATOM	1802	CG2	THR	A	238	18.677	46.101	33.819	1.00	20.86	C
ATOM	1803	N	SER	A	239	20.731	44.496	30.082	1.00	22.35	N
ATOM	1804	CA	SER	A	239	21.285	44.696	28.757	1.00	23.57	C
ATOM	1805	C	SER	A	239	22.505	43.798	28.526	1.00	23.66	C
ATOM	1806	O	SER	A	239	23.113	43.301	29.485	1.00	24.44	O
ATOM	1807	CB	SER	A	239	21.667	46.182	28.660	1.00	24.49	C
ATOM	1808	OG	SER	A	239	22.486	46.475	27.554	1.00	26.74	O
ATOM	1809	N	ASP	A	240	22.843	43.584	27.258	1.00	23.24	N
ATOM	1810	CA	ASP	A	240	23.983	42.746	26.865	1.00	23.95	C
ATOM	1811	C	ASP	A	240	25.066	43.664	26.318	1.00	23.97	C
ATOM	1812	O	ASP	A	240	25.935	43.240	25.562	1.00	26.23	O
ATOM	1813	CB	ASP	A	240	23.555	41.786	25.750	1.00	25.24	C
ATOM	1814	CG	ASP	A	240	22.954	42.524	24.549	1.00	27.18	C
ATOM	1815	OD1	ASP	A	240	22.869	43.785	24.564	1.00	26.36	O
ATOM	1816	OD2	ASP	A	240	22.566	41.843	23.575	1.00	29.54	O
ATOM	1817	N	VAL	A	241	25.009	44.928	26.697	1.00	24.95	N
ATOM	1818	CA	VAL	A	241	25.953	45.895	26.187	1.00	25.06	C
ATOM	1819	C	VAL	A	241	27.400	45.596	26.559	1.00	26.65	C
ATOM	1820	O	VAL	A	241	28.313	45.861	25.766	1.00	26.37	O
ATOM	1821	CB	VAL	A	241	25.585	47.304	26.659	1.00	26.17	C
ATOM	1822	CG1	VAL	A	241	25.832	47.427	28.141	1.00	25.10	C
ATOM	1823	CG2	VAL	A	241	26.374	48.336	25.855	1.00	25.03	C
ATOM	1824	N	ASP	A	242	27.602	45.018	27.742	1.00	24.86	N
ATOM	1825	CA	ASP	A	242	28.946	44.730	28.249	1.00	25.85	C
ATOM	1826	C	ASP	A	242	29.497	43.384	27.817	1.00	26.52	C
ATOM	1827	O	ASP	A	242	28.914	42.338	28.122	1.00	25.38	O
ATOM	1828	CB	ASP	A	242	28.935	44.800	29.779	1.00	26.07	C
ATOM	1829	CG	ASP	A	242	30.331	45.010	30.367	1.00	29.75	C
ATOM	1830	OD1	ASP	A	242	31.249	44.257	29.949	1.00	29.15	O
ATOM	1831	OD2	ASP	A	242	30.508	45.916	31.234	1.00	26.19	O
ATOM	1832	N	GLU	A	243	30.648	43.406	27.140	1.00	28.31	N
ATOM	1833	CA	GLU	A	243	31.271	42.181	26.660	1.00	29.83	C



ATOM	1834	C	GLU	A	243	31.534	41.139	27.723	1.00	29.05	C
ATOM	1835	O	GLU	A	243	31.497	39.940	27.445	1.00	27.73	O
ATOM	1836	CB	GLU	A	243	32.571	42.525	25.914	1.00	33.79	C
ATOM	1837	CG	GLU	A	243	32.301	43.305	24.612	1.00	38.65	C
ATOM	1838	CD	GLU	A	243	33.578	43.813	23.933	1.00	42.92	C
ATOM	1839	OE1	GLU	A	243	34.624	43.132	24.076	1.00	43.50	O
ATOM	1840	OE2	GLU	A	243	33.527	44.880	23.250	1.00	44.38	O
ATOM	1841	N	ARG	A	244	31.779	41.582	28.954	1.00	27.83	N
ATOM	1842	CA	ARG	A	244	32.038	40.646	30.033	1.00	26.75	C
ATOM	1843	C	ARG	A	244	30.786	39.890	30.453	1.00	26.16	C
ATOM	1844	O	ARG	A	244	30.869	38.818	31.058	1.00	26.27	O
ATOM	1845	CB	ARG	A	244	32.621	41.390	31.243	1.00	27.77	C
ATOM	1846	CG	ARG	A	244	33.943	42.122	30.950	1.00	27.06	C
ATOM	1847	CD	ARG	A	244	34.274	43.094	32.061	1.00	26.60	C
ATOM	1848	NE	ARG	A	244	33.498	44.302	31.881	1.00	27.39	N
ATOM	1849	CZ	ARG	A	244	33.812	45.479	32.398	1.00	27.68	C
ATOM	1850	NH1	ARG	A	244	34.908	45.613	33.156	1.00	27.42	N
ATOM	1851	NH2	ARG	A	244	33.056	46.528	32.113	1.00	26.47	N
ATOM	1852	N	ASP	A	245	29.609	40.443	30.153	1.00	26.43	N
ATOM	1853	CA	ASP	A	245	28.358	39.774	30.537	1.00	23.68	C
ATOM	1854	C	ASP	A	245	27.847	38.883	29.405	1.00	24.49	C
ATOM	1855	O	ASP	A	245	27.169	37.888	29.642	1.00	24.72	O
ATOM	1856	CB	ASP	A	245	27.274	40.815	30.882	1.00	22.78	C
ATOM	1857	CG	ASP	A	245	27.690	41.737	31.999	1.00	21.60	C
ATOM	1858	OD1	ASP	A	245	28.226	41.198	32.982	1.00	24.22	O
ATOM	1859	OD2	ASP	A	245	27.473	42.973	31.897	1.00	22.75	O
ATOM	1860	N	GLN	A	246	28.193	39.257	28.179	1.00	26.05	N
ATOM	1861	CA	GLN	A	246	27.742	38.521	26.996	1.00	29.04	C
ATOM	1862	C	GLN	A	246	27.881	37.015	26.999	1.00	29.21	C
ATOM	1863	O	GLN	A	246	27.020	36.307	26.472	1.00	31.78	O
ATOM	1864	CB	GLN	A	246	28.396	39.110	25.749	1.00	28.19	C
ATOM	1865	CG	GLN	A	246	27.671	40.335	25.258	1.00	29.68	C
ATOM	1866	CD	GLN	A	246	28.506	41.134	24.298	1.00	31.67	C
ATOM	1867	OE1	GLN	A	246	29.372	40.575	23.625	1.00	33.07	O
ATOM	1868	NE2	GLN	A	246	28.258	42.443	24.219	1.00	33.26	N
ATOM	1869	N	PRO	A	247	28.944	36.494	27.606	1.00	30.08	N
ATOM	1870	CA	PRO	A	247	29.151	35.043	27.653	1.00	29.08	C
ATOM	1871	C	PRO	A	247	28.028	34.246	28.316	1.00	29.63	C
ATOM	1872	O	PRO	A	247	27.853	33.063	28.036	1.00	30.20	O
ATOM	1873	CB	PRO	A	247	30.463	34.919	28.413	1.00	29.02	C
ATOM	1874	CG	PRO	A	247	31.200	36.138	28.003	1.00	28.94	C
ATOM	1875	CD	PRO	A	247	30.137	37.213	28.088	1.00	29.13	C
ATOM	1876	N	PHE	A	248	27.275	34.883	29.208	1.00	27.70	N
ATOM	1877	CA	PHE	A	248	26.192	34.210	29.911	1.00	27.28	C
ATOM	1878	C	PHE	A	248	24.803	34.542	29.336	1.00	27.03	C
ATOM	1879	O	PHE	A	248	23.801	33.949	29.759	1.00	27.34	O
ATOM	1880	CB	PHE	A	248	26.235	34.606	31.398	1.00	27.43	C
ATOM	1881	CG	PHE	A	248	27.613	34.471	32.019	1.00	26.01	C
ATOM	1882	CD1	PHE	A	248	28.051	33.249	32.482	1.00	27.27	C
ATOM	1883	CD2	PHE	A	248	28.474	35.562	32.092	1.00	26.32	C
ATOM	1884	CE1	PHE	A	248	29.329	33.098	33.009	1.00	27.78	C
ATOM	1885	CE2	PHE	A	248	29.763	35.428	32.620	1.00	27.55	C
ATOM	1886	CZ	PHE	A	248	30.187	34.189	33.078	1.00	27.79	C
ATOM	1887	N	ILE	A	249	24.741	35.485	28.396	1.00	27.27	N
ATOM	1888	CA	ILE	A	249	23.461	35.895	27.777	1.00	29.43	C
ATOM	1889	C	ILE	A	249	22.960	34.726	26.916	1.00	30.07	C
ATOM	1890	O	ILE	A	249	23.701	34.207	26.084	1.00	29.96	O
ATOM	1891	CB	ILE	A	249	23.639	37.174	26.876	1.00	30.43	C
ATOM	1892	CG1	ILE	A	249	24.246	38.323	27.701	1.00	33.00	C
ATOM	1893	CG2	ILE	A	249	22.312	37.643	26.306	1.00	30.17	C
ATOM	1894	CD1	ILE	A	249	23.289	39.033	28.560	1.00	31.08	C
ATOM	1895	N	THR	A	250	21.721	34.292	27.134	1.00	30.49	N
ATOM	1896	CA	THR	A	250	21.183	33.175	26.369	1.00	31.25	C
ATOM	1897	C	THR	A	250	20.498	33.569	25.063	1.00	31.78	C
ATOM	1898	O	THR	A	250	20.352	32.720	24.182	1.00	33.87	O
ATOM	1899	CB	THR	A	250	20.138	32.377	27.145	1.00	31.82	C
ATOM	1900	OG1	THR	A	250	18.875	33.062	27.049	1.00	34.00	O
ATOM	1901	CG2	THR	A	250	20.536	32.220	28.599	1.00	32.96	C
ATOM	1902	N	GLY	A	251	20.071	34.828	24.938	1.00	31.02	N
ATOM	1903	CA	GLY	A	251	19.397	35.287	23.730	1.00	31.41	C
ATOM	1904	C	GLY	A	251	17.899	35.450	23.953	1.00	31.35	C
ATOM	1905	O	GLY	A	251	17.228	36.233	23.285	1.00	33.66	O
ATOM	1906	N	GLU	A	252	17.369	34.677	24.890	1.00	31.94	N
ATOM	1907	CA	GLU	A	252	15.966	34.736	25.252	1.00	31.64	C
ATOM	1908	C	GLU	A	252	15.655	36.055	25.969	1.00	30.93	C
ATOM	1909	O	GLU	A	252	16.489	36.552	26.736	1.00	28.94	O
ATOM	1910	CB	GLU	A	252	15.653	33.614	26.194	1.00	34.57	C
ATOM	1911	CG	GLU	A	252	15.301	32.350	25.516	1.00	40.92	C
ATOM	1912	CD	GLU	A	252	14.492	31.488	26.433	1.00	43.65	C
ATOM	1913	OE1	GLU	A	252	13.717	32.071	27.240	1.00	46.77	O



ATOM	1914	OE2	GLU	A	252	14.616	30.244	26.350	1.00	46.26	O
ATOM	1915	N	ARG	A	253	14.455	36.583	25.746	1.00	27.95	N
ATOM	1916	CA	ARG	A	253	14.027	37.848	26.338	1.00	29.50	C
ATOM	1917	C	ARG	A	253	12.691	37.732	27.085	1.00	28.90	C
ATOM	1918	O	ARG	A	253	11.921	36.794	26.852	1.00	30.02	O
ATOM	1919	CB	ARG	A	253	13.863	38.901	25.237	1.00	30.15	C
ATOM	1920	CG	ARG	A	253	15.065	39.082	24.338	1.00	32.26	C
ATOM	1921	CD	ARG	A	253	16.182	39.787	25.073	1.00	33.58	C
ATOM	1922	NE	ARG	A	253	15.841	41.172	25.343	1.00	35.16	N
ATOM	1923	CZ	ARG	A	253	15.839	42.129	24.421	1.00	36.84	C
ATOM	1924	NH1	ARG	A	253	16.165	41.831	23.169	1.00	38.07	N
ATOM	1925	NH2	ARG	A	253	15.512	43.382	24.748	1.00	36.74	N
ATOM	1926	N	THR	A	254	12.426	38.678	27.993	1.00	27.40	N
ATOM	1927	CA	THR	A	254	11.160	38.696	28.712	1.00	27.37	C
ATOM	1928	C	THR	A	254	10.276	39.754	28.051	1.00	26.47	C
ATOM	1929	O	THR	A	254	10.741	40.591	27.279	1.00	25.72	O
ATOM	1930	CB	THR	A	254	11.305	39.053	30.244	1.00	26.09	C
ATOM	1931	OG1	THR	A	254	11.661	40.428	30.390	1.00	27.51	O
ATOM	1932	CG2	THR	A	254	12.364	38.178	30.928	1.00	26.98	C
ATOM	1933	N	ARG	A	255	8.985	39.731	28.365	1.00	29.09	N
ATOM	1934	CA	ARG	A	255	8.079	40.694	27.763	1.00	29.79	C
ATOM	1935	C	ARG	A	255	8.438	42.151	28.130	1.00	29.10	C
ATOM	1936	O	ARG	A	255	8.043	43.065	27.412	1.00	30.25	O
ATOM	1937	CB	ARG	A	255	6.618	40.309	28.111	1.00	33.86	C
ATOM	1938	CG	ARG	A	255	6.286	38.864	27.667	1.00	38.92	C
ATOM	1939	CD	ARG	A	255	4.836	38.367	27.944	1.00	44.59	C
ATOM	1940	NE	ARG	A	255	3.835	38.966	27.053	1.00	49.88	N
ATOM	1941	CZ	ARG	A	255	3.842	38.867	25.717	1.00	51.67	C
ATOM	1942	NH1	ARG	A	255	4.797	38.181	25.089	1.00	52.04	N
ATOM	1943	NH2	ARG	A	255	2.905	39.485	25.000	1.00	52.79	N
ATOM	1944	N	GLU	A	256	9.190	42.368	29.222	1.00	27.83	N
ATOM	1945	CA	GLU	A	256	9.616	43.731	29.632	1.00	26.97	C
ATOM	1946	C	GLU	A	256	10.881	44.144	28.893	1.00	26.76	C
ATOM	1947	O	GLU	A	256	11.312	45.296	28.983	1.00	27.56	O
ATOM	1948	CB	GLU	A	256	9.954	43.822	31.134	1.00	25.88	C
ATOM	1949	CG	GLU	A	256	8.829	43.430	32.077	1.00	26.73	C
ATOM	1950	CD	GLU	A	256	8.973	42.022	32.612	1.00	25.69	C
ATOM	1951	OE1	GLU	A	256	9.542	41.174	31.883	1.00	25.82	O
ATOM	1952	OE2	GLU	A	256	8.500	41.775	33.755	1.00	24.39	O
ATOM	1953	N	GLY	A	257	11.505	43.192	28.205	1.00	26.02	N
ATOM	1954	CA	GLY	A	257	12.736	43.504	27.494	1.00	25.89	C
ATOM	1955	C	GLY	A	257	14.024	43.093	28.213	1.00	25.73	C
ATOM	1956	O	GLY	A	257	15.125	43.436	27.774	1.00	25.38	O
ATOM	1957	N	PHE	A	258	13.909	42.384	29.332	1.00	24.01	N
ATOM	1958	CA	PHE	A	258	15.098	41.950	30.025	1.00	23.76	C
ATOM	1959	C	PHE	A	258	15.686	40.765	29.225	1.00	25.18	C
ATOM	1960	O	PHE	A	258	15.000	40.139	28.408	1.00	25.52	O
ATOM	1961	CB	PHE	A	258	14.754	41.486	31.442	1.00	22.77	C
ATOM	1962	CG	PHE	A	258	14.092	42.547	32.297	1.00	22.85	C
ATOM	1963	CD1	PHE	A	258	14.700	43.785	32.482	1.00	23.44	C
ATOM	1964	CD2	PHE	A	258	12.904	42.262	32.981	1.00	21.67	C
ATOM	1965	CE1	PHE	A	258	14.131	44.749	33.362	1.00	23.10	C
ATOM	1966	CE2	PHE	A	258	12.330	43.189	33.855	1.00	23.40	C
ATOM	1967	CZ	PHE	A	258	12.943	44.441	34.052	1.00	22.27	C
ATOM	1968	N	TYR	A	259	16.960	40.477	29.473	1.00	23.73	N
ATOM	1969	CA	TYR	A	259	17.685	39.396	28.820	1.00	23.73	C
ATOM	1970	C	TYR	A	259	17.858	38.275	29.831	1.00	24.23	C
ATOM	1971	O	TYR	A	259	18.185	38.544	30.995	1.00	24.67	O
ATOM	1972	CB	TYR	A	259	19.087	39.872	28.416	1.00	21.94	C
ATOM	1973	CG	TYR	A	259	19.136	40.886	27.286	1.00	23.45	C
ATOM	1974	CD1	TYR	A	259	18.797	42.217	27.509	1.00	23.59	C
ATOM	1975	CD2	TYR	A	259	19.516	40.502	25.986	1.00	23.30	C
ATOM	1976	CE1	TYR	A	259	18.823	43.156	26.485	1.00	24.64	C
ATOM	1977	CE2	TYR	A	259	19.549	41.452	24.929	1.00	24.38	C
ATOM	1978	CZ	TYR	A	259	19.200	42.771	25.193	1.00	25.01	C
ATOM	1979	OH	TYR	A	259	19.222	43.729	24.207	1.00	24.91	O
ATOM	1980	N	ARG	A	260	17.624	37.031	29.408	1.00	23.90	N
ATOM	1981	CA	ARG	A	260	17.820	35.867	30.268	1.00	24.72	C
ATOM	1982	C	ARG	A	260	19.321	35.692	30.322	1.00	24.20	C
ATOM	1983	O	ARG	A	260	20.008	35.949	29.339	1.00	24.49	O
ATOM	1984	CB	ARG	A	260	17.249	34.610	29.656	1.00	26.78	C
ATOM	1985	CG	ARG	A	260	15.781	34.669	29.362	1.00	31.65	C
ATOM	1986	CD	ARG	A	260	15.027	34.441	30.604	1.00	35.78	C
ATOM	1987	NE	ARG	A	260	13.590	34.477	30.381	1.00	39.72	N
ATOM	1988	CZ	ARG	A	260	12.726	34.487	31.381	1.00	39.34	C
ATOM	1989	NH1	ARG	A	260	13.196	34.460	32.628	1.00	40.95	N
ATOM	1990	NH2	ARG	A	260	11.419	34.525	31.138	1.00	40.19	N
ATOM	1991	N	THR	A	261	19.842	35.251	31.463	1.00	24.65	N
ATOM	1992	CA	THR	A	261	21.283	35.089	31.572	1.00	24.00	C
ATOM	1993	C	THR	A	261	21.524	33.874	32.449	1.00	24.57	C



ATOM	1994	O	THR	A	261	20.687	33.526	33.283	1.00	24.17	O
ATOM	1995	CB	THR	A	261	21.939	36.397	32.120	1.00	24.45	C
ATOM	1996	OG1	THR	A	261	23.367	36.295	32.038	1.00	24.33	C
ATOM	1997	CG2	THR	A	261	21.514	36.680	33.556	1.00	20.83	C
ATOM	1998	N	LYS	A	262	22.648	33.200	32.207	1.00	26.55	N
ATOM	1999	CA	LYS	A	262	23.014	31.983	32.927	1.00	27.91	C
ATOM	2000	C	LYS	A	262	23.621	32.320	34.285	1.00	27.94	C
ATOM	2001	O	LYS	A	262	24.686	32.949	34.382	1.00	26.93	O
ATOM	2002	CB	LYS	A	262	24.007	31.197	32.072	1.00	31.16	C
ATOM	2003	CG	LYS	A	262	23.385	30.530	30.855	1.00	36.27	C
ATOM	2004	CD	LYS	A	262	24.470	30.042	29.869	1.00	40.36	C
ATOM	2005	CE	LYS	A	262	24.105	28.701	29.211	1.00	43.25	C
ATOM	2006	NZ	LYS	A	262	22.731	28.670	28.619	1.00	44.49	N
ATOM	2007	N	ASN	A	263	22.925	31.913	35.330	1.00	27.62	N
ATOM	2008	CA	ASN	A	263	23.361	32.196	36.688	1.00	30.71	C
ATOM	2009	C	ASN	A	263	24.188	31.084	37.277	1.00	31.22	C
ATOM	2010	O	ASN	A	263	24.014	29.899	36.934	1.00	33.48	O
ATOM	2011	CB	ASN	A	263	22.165	32.362	37.604	1.00	31.07	C
ATOM	2012	CG	ASN	A	263	21.356	31.108	37.683	1.00	32.46	C
ATOM	2013	OD1	ASN	A	263	20.770	30.688	36.694	1.00	36.43	O
ATOM	2014	ND2	ASN	A	263	21.330	30.486	38.848	1.00	33.77	N
ATOM	2015	N	GLY	A	264	25.031	31.469	38.222	1.00	30.86	N
ATOM	2016	CA	GLY	A	264	25.872	30.513	38.913	1.00	29.99	C
ATOM	2017	C	GLY	A	264	27.083	31.209	39.485	1.00	30.06	C
ATOM	2018	O	GLY	A	264	27.222	32.425	39.397	1.00	30.07	O
ATOM	2019	N	ILE	A	265	27.993	30.431	40.042	1.00	30.13	N
ATOM	2020	CA	ILE	A	265	29.166	31.013	40.631	1.00	29.80	C
ATOM	2021	C	ILE	A	265	30.130	31.562	39.584	1.00	28.42	C
ATOM	2022	O	ILE	A	265	30.880	32.486	39.874	1.00	27.02	O
ATOM	2023	CB	ILE	A	265	29.849	29.991	41.527	1.00	31.30	C
ATOM	2024	CG1	ILE	A	265	31.025	30.641	42.237	1.00	31.64	C
ATOM	2025	CG2	ILE	A	265	30.257	28.771	40.697	1.00	32.97	C
ATOM	2026	CD1	ILE	A	265	31.688	29.723	43.231	1.00	34.02	C
ATOM	2027	N	GLU	A	266	30.073	31.034	38.359	1.00	29.04	N
ATOM	2028	CA	GLU	A	266	30.958	31.482	37.288	1.00	29.66	C
ATOM	2029	C	GLU	A	266	30.717	32.979	37.031	1.00	29.10	C
ATOM	2030	O	GLU	A	266	31.665	33.778	36.989	1.00	27.63	O
ATOM	2031	CB	GLU	A	266	30.751	30.600	36.011	1.00	32.89	C
ATOM	2032	CG	GLU	A	266	31.604	31.029	34.782	1.00	38.57	C
ATOM	2033	CD	GLU	A	266	31.533	30.077	33.538	1.00	42.10	C
ATOM	2034	OE1	GLU	A	266	30.466	29.468	33.259	1.00	42.02	O
ATOM	2035	OE2	GLU	A	266	32.561	29.965	32.812	1.00	43.31	O
ATOM	2036	N	PRO	A	267	29.447	33.390	36.861	1.00	26.94	N
ATOM	2037	CA	PRO	A	267	29.197	34.818	36.631	1.00	27.47	C
ATOM	2038	C	PRO	A	267	29.678	35.654	37.858	1.00	26.60	C
ATOM	2039	O	PRO	A	267	30.211	36.774	37.709	1.00	26.18	O
ATOM	2040	CB	PRO	A	267	27.671	34.886	36.461	1.00	27.25	C
ATOM	2041	CG	PRO	A	267	27.284	33.502	36.043	1.00	26.71	C
ATOM	2042	CD	PRO	A	267	28.201	32.599	36.797	1.00	28.19	C
ATOM	2043	N	CYS	A	268	29.491	35.101	39.057	1.00	27.47	N
ATOM	2044	CA	CYS	A	268	29.895	35.794	40.280	1.00	27.95	C
ATOM	2045	C	CYS	A	268	31.398	36.034	40.320	1.00	28.14	C
ATOM	2046	O	CYS	A	268	31.845	37.134	40.627	1.00	28.11	O
ATOM	2047	CB	CYS	A	268	29.476	35.012	41.513	1.00	28.39	C
ATOM	2048	SG	CYS	A	268	27.690	34.999	41.753	1.00	28.23	S
ATOM	2049	N	ILE	A	269	32.173	35.008	39.970	1.00	27.19	N
ATOM	2050	CA	ILE	A	269	33.615	35.145	39.984	1.00	26.87	C
ATOM	2051	C	ILE	A	269	34.075	36.172	39.000	1.00	26.28	C
ATOM	2052	O	ILE	A	269	34.945	36.970	39.309	1.00	26.01	O
ATOM	2053	CB	ILE	A	269	34.271	33.798	39.695	1.00	28.98	C
ATOM	2054	CG1	ILE	A	269	34.039	32.884	40.882	1.00	27.98	C
ATOM	2055	CG2	ILE	A	269	35.759	33.971	39.394	1.00	29.90	C
ATOM	2056	CD1	ILE	A	269	34.086	31.406	40.545	1.00	29.95	C
ATOM	2057	N	ALA	A	270	33.476	36.180	37.810	1.00	26.65	N
ATOM	2058	CA	ALA	A	270	33.850	37.132	36.767	1.00	25.02	C
ATOM	2059	C	ALA	A	270	33.580	38.581	37.216	1.00	24.49	C
ATOM	2060	O	ALA	A	270	34.404	39.469	37.026	1.00	24.77	O
ATOM	2061	CB	ALA	A	270	33.044	36.825	35.461	1.00	25.54	C
ATOM	2062	N	ARG	A	271	32.398	38.826	37.768	1.00	24.28	N
ATOM	2063	CA	ARG	A	271	32.083	40.170	38.245	1.00	24.21	C
ATOM	2064	C	ARG	A	271	33.002	40.538	39.422	1.00	21.64	C
ATOM	2065	O	ARG	A	271	33.556	41.650	39.450	1.00	21.83	O
ATOM	2066	CB	ARG	A	271	30.609	40.249	38.654	1.00	23.04	C
ATOM	2067	CG	ARG	A	271	29.709	40.492	37.437	1.00	22.46	C
ATOM	2068	CD	ARG	A	271	28.246	40.285	37.704	1.00	25.08	C
ATOM	2069	NE	ARG	A	271	27.519	40.534	36.458	1.00	24.99	N
ATOM	2070	CZ	ARG	A	271	26.725	41.569	36.239	1.00	26.33	C
ATOM	2071	NH1	ARG	A	271	26.511	42.458	37.199	1.00	24.40	N
ATOM	2072	NH2	ARG	A	271	26.216	41.759	35.023	1.00	25.41	N
ATOM	2073	N	ALA	A	272	33.195	39.599	40.350	1.00	23.18	N



ATOM	2074	CA	ALA	A	272	34.073	39.847	41.504	1.00	24.20	C
ATOM	2075	C	ALA	A	272	35.436	40.365	41.015	1.00	25.66	C
ATOM	2076	O	ALA	A	272	35.964	41.384	41.513	1.00	26.14	O
ATOM	2077	CB	ALA	A	272	34.245	38.570	42.338	1.00	23.20	C
ATOM	2078	N	LYS	A	273	36.004	39.716	40.003	1.00	26.78	N
ATOM	2079	CA	LYS	A	273	37.308	40.177	39.503	1.00	26.19	C
ATOM	2080	C	LYS	A	273	37.237	41.543	38.867	1.00	25.58	C
ATOM	2081	O	LYS	A	273	38.160	42.344	38.992	1.00	25.79	O
ATOM	2082	CB	LYS	A	273	37.888	39.173	38.502	1.00	27.23	C
ATOM	2083	CG	LYS	A	273	38.088	37.811	39.087	1.00	29.49	C
ATOM	2084	CD	LYS	A	273	38.359	36.780	38.007	1.00	30.35	C
ATOM	2085	CE	LYS	A	273	39.057	35.561	38.606	1.00	32.46	C
ATOM	2086	NZ	LYS	A	273	39.711	34.757	37.551	1.00	33.43	N
ATOM	2087	N	ALA	A	274	36.143	41.823	38.172	1.00	24.96	N
ATOM	2088	CA	ALA	A	274	35.982	43.126	37.539	1.00	24.84	C
ATOM	2089	C	ALA	A	274	35.808	44.217	38.597	1.00	23.74	C
ATOM	2090	O	ALA	A	274	36.293	45.334	38.440	1.00	23.00	O
ATOM	2091	CB	ALA	A	274	34.757	43.114	36.590	1.00	22.94	C
ATOM	2092	N	TYR	A	275	35.119	43.878	39.682	1.00	24.48	N
ATOM	2093	CA	TYR	A	275	34.870	44.845	40.730	1.00	25.26	C
ATOM	2094	C	TYR	A	275	36.111	45.108	41.616	1.00	26.25	C
ATOM	2095	O	TYR	A	275	36.333	46.242	42.054	1.00	25.90	O
ATOM	2096	CB	TYR	A	275	33.688	44.399	41.615	1.00	22.69	C
ATOM	2097	CG	TYR	A	275	32.347	44.225	40.918	1.00	22.33	C
ATOM	2098	CD1	TYR	A	275	32.053	44.894	39.728	1.00	23.40	C
ATOM	2099	CD2	TYR	A	275	31.379	43.389	41.453	1.00	22.49	C
ATOM	2100	CE1	TYR	A	275	30.808	44.718	39.076	1.00	21.15	C
ATOM	2101	CE2	TYR	A	275	30.121	43.204	40.805	1.00	21.61	C
ATOM	2102	CZ	TYR	A	275	29.867	43.871	39.626	1.00	22.47	C
ATOM	2103	OH	TYR	A	275	28.655	43.673	38.973	1.00	24.36	O
ATOM	2104	N	ALA	A	276	36.920	44.072	41.855	1.00	27.67	N
ATOM	2105	CA	ALA	A	276	38.091	44.206	42.738	1.00	26.56	C
ATOM	2106	C	ALA	A	276	38.824	45.544	42.840	1.00	27.09	C
ATOM	2107	O	ALA	A	276	38.904	46.131	43.925	1.00	28.29	O
ATOM	2108	CB	ALA	A	276	39.096	43.082	42.448	1.00	27.63	C
ATOM	2109	N	PRO	A	277	39.346	46.065	41.738	1.00	27.02	N
ATOM	2110	CA	PRO	A	277	40.068	47.345	41.788	1.00	27.42	C
ATOM	2111	C	PRO	A	277	39.260	48.526	42.364	1.00	28.56	C
ATOM	2112	O	PRO	A	277	39.810	49.636	42.583	1.00	28.93	O
ATOM	2113	CB	PRO	A	277	40.419	47.615	40.316	1.00	27.08	C
ATOM	2114	CG	PRO	A	277	40.295	46.290	39.638	1.00	26.79	C
ATOM	2115	CD	PRO	A	277	39.119	45.651	40.344	1.00	27.73	C
ATOM	2116	N	PHE	A	278	37.960	48.292	42.561	1.00	27.88	N
ATOM	2117	CA	PHE	A	278	37.039	49.324	43.027	1.00	27.28	C
ATOM	2118	C	PHE	A	278	36.350	48.915	44.331	1.00	27.77	C
ATOM	2119	O	PHE	A	278	35.445	49.616	44.797	1.00	27.86	O
ATOM	2120	CB	PHE	A	278	35.945	49.584	41.949	1.00	26.02	C
ATOM	2121	CG	PHE	A	278	36.499	49.950	40.574	1.00	25.14	C
ATOM	2122	CD1	PHE	A	278	36.957	51.238	40.302	1.00	25.85	C
ATOM	2123	CD2	PHE	A	278	36.632	48.982	39.590	1.00	25.80	C
ATOM	2124	CE1	PHE	A	278	37.545	51.561	39.073	1.00	26.00	C
ATOM	2125	CE2	PHE	A	278	37.224	49.296	38.347	1.00	25.71	C
ATOM	2126	CZ	PHE	A	278	37.679	50.579	38.091	1.00	25.31	C
ATOM	2127	N	ALA	A	279	36.782	47.800	44.917	1.00	26.00	N
ATOM	2128	CA	ALA	A	279	36.159	47.295	46.131	1.00	26.51	C
ATOM	2129	C	ALA	A	279	37.084	46.884	47.274	1.00	26.83	C
ATOM	2130	O	ALA	A	279	37.964	46.050	47.083	1.00	26.89	O
ATOM	2131	CB	ALA	A	279	35.291	46.110	45.772	1.00	27.09	C
ATOM	2132	N	ASP	A	280	36.835	47.411	48.475	1.00	27.48	N
ATOM	2133	CA	ASP	A	280	37.633	47.063	49.664	1.00	27.53	C
ATOM	2134	C	ASP	A	280	37.305	45.632	50.136	1.00	27.65	C
ATOM	2135	O	ASP	A	280	38.150	44.932	50.730	1.00	28.49	O
ATOM	2136	CB	ASP	A	280	37.388	48.099	50.788	1.00	26.27	C
ATOM	2137	CG	ASP	A	280	37.887	49.485	50.419	1.00	26.67	C
ATOM	2138	OD1	ASP	A	280	38.999	49.598	49.858	1.00	28.21	O
ATOM	2139	OD2	ASP	A	280	37.189	50.495	50.680	1.00	26.49	O
ATOM	2140	N	LEU	A	281	36.062	45.198	49.908	1.00	27.44	N
ATOM	2141	CA	LEU	A	281	35.644	43.834	50.216	1.00	27.04	C
ATOM	2142	C	LEU	A	281	34.688	43.447	49.107	1.00	26.89	C
ATOM	2143	O	LEU	A	281	34.063	44.318	48.492	1.00	28.96	O
ATOM	2144	CB	LEU	A	281	34.923	43.690	51.558	1.00	27.37	C
ATOM	2145	CG	LEU	A	281	35.756	43.893	52.831	1.00	27.32	C
ATOM	2146	CD1	LEU	A	281	35.631	45.322	53.240	1.00	26.75	C
ATOM	2147	CD2	LEU	A	281	35.244	42.988	53.921	1.00	27.03	C
ATOM	2148	N	ILE	A	282	34.587	42.154	48.855	1.00	25.91	N
ATOM	2149	CA	ILE	A	282	33.711	41.658	47.824	1.00	26.09	C
ATOM	2150	C	ILE	A	282	32.840	40.583	48.422	1.00	25.75	C
ATOM	2151	O	ILE	A	282	33.273	39.733	49.207	1.00	24.09	O
ATOM	2152	CB	ILE	A	282	34.477	41.093	46.620	1.00	25.88	C
ATOM	2153	CG1	ILE	A	282	35.426	42.162	46.090	1.00	26.75	C



ATOM	2154	CG2	ILE	A	282	33.480	40.685	45.527	1.00	26.08	C
ATOM	2155	CD1	ILE	A	282	36.044	41.835	44.756	1.00	28.75	C
ATOM	2156	N	TRP	A	283	31.584	40.627	48.020	1.00	24.11	N
ATOM	2157	CA	TRP	A	283	30.592	39.738	48.552	1.00	24.37	C
ATOM	2158	C	TRP	A	283	29.706	39.175	47.464	1.00	24.24	C
ATOM	2159	O	TRP	A	283	29.285	39.922	46.591	1.00	25.53	O
ATOM	2160	CB	TRP	A	283	29.768	40.578	49.553	1.00	23.82	C
ATOM	2161	CG	TRP	A	283	28.419	40.108	49.943	1.00	20.39	C
ATOM	2162	CD1	TRP	A	283	27.932	38.845	49.886	1.00	19.59	C
ATOM	2163	CD2	TRP	A	283	27.387	40.917	50.539	1.00	19.58	C
ATOM	2164	NE1	TRP	A	283	26.663	38.806	50.400	1.00	17.74	N
ATOM	2165	CE2	TRP	A	283	26.300	40.062	50.812	1.00	19.94	C
ATOM	2166	CE3	TRP	A	283	27.288	42.271	50.869	1.00	18.63	C
ATOM	2167	CZ2	TRP	A	283	25.112	40.510	51.400	1.00	18.01	C
ATOM	2168	CZ3	TRP	A	283	26.075	42.737	51.472	1.00	17.49	C
ATOM	2169	CH2	TRP	A	283	25.016	41.850	51.721	1.00	18.33	C
ATOM	2170	N	MET	A	284	29.456	37.869	47.499	1.00	24.62	N
ATOM	2171	CA	MET	A	284	28.514	37.271	46.556	1.00	23.90	C
ATOM	2172	C	MET	A	284	27.423	36.562	47.356	1.00	23.35	C
ATOM	2173	O	MET	A	284	27.692	35.823	48.308	1.00	20.84	O
ATOM	2174	CB	MET	A	284	29.198	36.270	45.587	1.00	26.97	C
ATOM	2175	CG	MET	A	284	29.487	34.901	46.159	1.00	27.34	C
ATOM	2176	SD	MET	A	284	30.011	33.699	44.856	1.00	30.17	S
ATOM	2177	CE	MET	A	284	28.658	32.675	44.859	1.00	23.43	C
ATOM	2178	N	GLU	A	285	26.168	36.823	47.009	1.00	24.01	N
ATOM	2179	CA	GLU	A	285	25.053	36.169	47.681	1.00	25.03	C
ATOM	2180	C	GLU	A	285	24.976	34.733	47.187	1.00	25.82	C
ATOM	2181	O	GLU	A	285	25.249	34.468	46.023	1.00	26.78	O
ATOM	2182	CB	GLU	A	285	23.752	36.881	47.355	1.00	25.48	C
ATOM	2183	CG	GLU	A	285	23.612	38.237	48.030	1.00	27.29	C
ATOM	2184	CD	GLU	A	285	23.139	38.142	49.483	1.00	28.80	C
ATOM	2185	OE1	GLU	A	285	23.888	37.600	50.339	1.00	24.61	O
ATOM	2186	OE2	GLU	A	285	22.010	38.633	49.759	1.00	27.39	O
ATOM	2187	N	THR	A	286	24.573	33.823	48.064	1.00	27.58	N
ATOM	2188	CA	THR	A	286	24.470	32.409	47.711	1.00	29.13	C
ATOM	2189	C	THR	A	286	23.129	31.862	48.134	1.00	28.32	C
ATOM	2190	O	THR	A	286	22.483	32.412	49.026	1.00	30.77	O
ATOM	2191	CB	THR	A	286	25.619	31.570	48.368	1.00	31.90	C
ATOM	2192	OG1	THR	A	286	25.592	31.716	49.793	1.00	31.64	O
ATOM	2193	CG2	THR	A	286	26.967	32.050	47.865	1.00	33.52	C
ATOM	2194	N	GLY	A	287	22.698	30.787	47.490	1.00	27.27	N
ATOM	2195	CA	GLY	A	287	21.405	30.210	47.802	1.00	27.39	C
ATOM	2196	C	GLY	A	287	21.353	29.295	49.008	1.00	27.51	C
ATOM	2197	O	GLY	A	287	20.265	28.910	49.452	1.00	25.92	O
ATOM	2198	N	THR	A	288	22.525	28.949	49.533	1.00	28.22	N
ATOM	2199	CA	THR	A	288	22.622	28.070	50.712	1.00	29.25	C
ATOM	2200	C	THR	A	288	23.913	28.371	51.469	1.00	27.92	C
ATOM	2201	O	THR	A	288	24.859	28.912	50.907	1.00	27.79	O
ATOM	2202	CB	THR	A	288	22.713	26.568	50.322	1.00	30.12	C
ATOM	2203	OG1	THR	A	288	23.848	26.375	49.472	1.00	33.33	O
ATOM	2204	CG2	THR	A	288	21.474	26.101	49.610	1.00	32.94	C
ATOM	2205	N	PRO	A	289	23.970	28.031	52.768	1.00	28.08	N
ATOM	2206	CA	PRO	A	289	25.218	28.302	53.490	1.00	29.52	C
ATOM	2207	C	PRO	A	289	26.118	27.088	53.181	1.00	31.34	C
ATOM	2208	O	PRO	A	289	25.953	26.021	53.773	1.00	32.01	O
ATOM	2209	CB	PRO	A	289	24.768	28.381	54.945	1.00	27.35	C
ATOM	2210	CG	PRO	A	289	23.591	27.454	55.016	1.00	28.30	C
ATOM	2211	CD	PRO	A	289	22.921	27.484	53.643	1.00	27.06	C
ATOM	2212	N	ASP	A	290	27.048	27.263	52.244	1.00	33.06	N
ATOM	2213	CA	ASP	A	290	27.921	26.174	51.775	1.00	33.31	C
ATOM	2214	C	ASP	A	290	29.393	26.542	51.821	1.00	33.34	C
ATOM	2215	O	ASP	A	290	29.865	27.355	51.022	1.00	34.44	O
ATOM	2216	CB	ASP	A	290	27.559	25.823	50.321	1.00	34.15	C
ATOM	2217	CG	ASP	A	290	28.239	24.531	49.825	1.00	36.27	C
ATOM	2218	OD1	ASP	A	290	29.408	24.278	50.195	1.00	34.28	O
ATOM	2219	OD2	ASP	A	290	27.597	23.776	49.052	1.00	36.69	O
ATOM	2220	N	LEU	A	291	30.128	25.911	52.732	1.00	33.37	N
ATOM	2221	CA	LEU	A	291	31.562	26.170	52.881	1.00	32.41	C
ATOM	2222	C	LEU	A	291	32.343	25.879	51.600	1.00	33.46	C
ATOM	2223	O	LEU	A	291	33.351	26.530	51.287	1.00	31.95	O
ATOM	2224	CB	LEU	A	291	32.100	25.324	54.042	1.00	31.68	C
ATOM	2225	CG	LEU	A	291	31.640	25.853	55.412	1.00	31.34	C
ATOM	2226	CD1	LEU	A	291	32.127	24.992	56.526	1.00	31.69	C
ATOM	2227	CD2	LEU	A	291	32.161	27.284	55.557	1.00	30.98	C
ATOM	2228	N	GLU	A	292	31.857	24.889	50.860	1.00	34.73	N
ATOM	2229	CA	GLU	A	292	32.493	24.477	49.619	1.00	37.76	C
ATOM	2230	C	GLU	A	292	32.418	25.593	48.587	1.00	36.32	C
ATOM	2231	O	GLU	A	292	33.440	26.128	48.131	1.00	37.06	O
ATOM	2232	CB	GLU	A	292	31.802	23.213	49.083	1.00	41.05	C
ATOM	2233	CG	GLU	A	292	32.759	22.051	48.864	1.00	46.35	C



ATOM	2234	CD	GLU	A	292	34.078	22.513	48.238	1.00	48.82	C
ATOM	2235	OE1	GLU	A	292	34.050	23.061	47.106	1.00	49.89	O
ATOM	2236	OE2	GLU	A	292	35.138	22.339	48.891	1.00	49.97	O
ATOM	2237	N	ALA	A	293	31.191	25.945	48.235	1.00	35.33	N
ATOM	2238	CA	ALA	A	293	30.944	26.996	47.266	1.00	33.51	C
ATOM	2239	C	ALA	A	293	31.736	28.248	47.637	1.00	32.61	C
ATOM	2240	O	ALA	A	293	32.274	28.934	46.763	1.00	31.45	O
ATOM	2241	CB	ALA	A	293	29.446	27.305	47.219	1.00	34.51	C
ATOM	2242	N	ALA	A	294	31.822	28.532	48.937	1.00	32.07	N
ATOM	2243	CA	ALA	A	294	32.548	29.710	49.404	1.00	32.48	C
ATOM	2244	C	ALA	A	294	34.044	29.634	49.068	1.00	32.59	C
ATOM	2245	O	ALA	A	294	34.655	30.606	48.601	1.00	33.62	O
ATOM	2246	CB	ALA	A	294	32.344	29.864	50.926	1.00	33.45	C
ATOM	2247	N	ARG	A	295	34.633	28.467	49.297	1.00	34.14	N
ATOM	2248	CA	ARG	A	295	36.057	28.249	49.031	1.00	34.42	C
ATOM	2249	C	ARG	A	295	36.327	28.481	47.553	1.00	34.17	C
ATOM	2250	O	ARG	A	295	37.272	29.192	47.174	1.00	34.40	O
ATOM	2251	CB	ARG	A	295	36.441	26.809	49.416	1.00	36.47	C
ATOM	2252	CG	ARG	A	295	37.946	26.552	49.599	1.00	38.82	C
ATOM	2253	CD	ARG	A	295	38.252	25.033	49.738	1.00	40.94	C
ATOM	2254	NE	ARG	A	295	37.412	24.343	50.727	1.00	44.08	N
ATOM	2255	CZ	ARG	A	295	37.540	24.466	52.051	1.00	45.94	C
ATOM	2256	NH1	ARG	A	295	38.488	25.250	52.562	1.00	46.56	N
ATOM	2257	NH2	ARG	A	295	36.701	23.831	52.875	1.00	45.76	N
ATOM	2258	N	GLN	A	296	35.458	27.907	46.719	1.00	34.32	N
ATOM	2259	CA	GLN	A	296	35.581	28.045	45.272	1.00	34.30	C
ATOM	2260	C	GLN	A	296	35.680	29.510	44.849	1.00	34.19	C
ATOM	2261	O	GLN	A	296	36.624	29.909	44.142	1.00	33.47	O
ATOM	2262	CB	GLN	A	296	34.384	27.388	44.599	1.00	35.62	C
ATOM	2263	CG	GLN	A	296	34.541	27.215	43.103	1.00	39.32	C
ATOM	2264	CD	GLN	A	296	33.338	26.546	42.496	1.00	40.64	C
ATOM	2265	OE1	GLN	A	296	32.451	26.077	43.213	1.00	40.35	O
ATOM	2266	NE2	GLN	A	296	33.301	26.482	41.166	1.00	42.04	N
ATOM	2267	N	PHE	A	297	34.706	30.308	45.303	1.00	33.39	N
ATOM	2268	CA	PHE	A	297	34.632	31.735	44.981	1.00	32.01	C
ATOM	2269	C	PHE	A	297	35.891	32.428	45.479	1.00	31.89	C
ATOM	2270	O	PHE	A	297	36.499	33.233	44.774	1.00	31.61	O
ATOM	2271	CB	PHE	A	297	33.373	32.354	45.646	1.00	31.87	C
ATOM	2272	CG	PHE	A	297	33.277	33.867	45.535	1.00	31.46	C
ATOM	2273	CD1	PHE	A	297	33.009	34.486	44.315	1.00	30.76	C
ATOM	2274	CD2	PHE	A	297	33.463	34.673	46.666	1.00	31.62	C
ATOM	2275	CE1	PHE	A	297	32.928	35.875	44.206	1.00	29.23	C
ATOM	2276	CE2	PHE	A	297	33.391	36.068	46.576	1.00	30.43	C
ATOM	2277	CZ	PHE	A	297	33.120	36.674	45.333	1.00	31.42	C
ATOM	2278	N	SER	A	298	36.273	32.079	46.700	1.00	32.77	N
ATOM	2279	CA	SER	A	298	37.433	32.656	47.354	1.00	33.67	C
ATOM	2280	C	SER	A	298	38.747	32.420	46.611	1.00	33.23	C
ATOM	2281	O	SER	A	298	39.489	33.371	46.291	1.00	32.53	O
ATOM	2282	CB	SER	A	298	37.542	32.088	48.768	1.00	34.90	C
ATOM	2283	OG	SER	A	298	38.737	32.547	49.363	1.00	39.16	O
ATOM	2284	N	GLU	A	299	39.044	31.156	46.349	1.00	33.37	N
ATOM	2285	CA	GLU	A	299	40.287	30.834	45.652	1.00	35.15	C
ATOM	2286	C	GLU	A	299	40.283	31.478	44.270	1.00	34.42	C
ATOM	2287	O	GLU	A	299	41.259	32.115	43.863	1.00	35.34	O
ATOM	2288	CB	GLU	A	299	40.461	29.320	45.558	1.00	34.43	C
ATOM	2289	CG	GLU	A	299	40.416	28.661	46.940	1.00	37.55	C
ATOM	2290	CD	GLU	A	299	40.757	27.172	46.944	1.00	40.70	C
ATOM	2291	OE1	GLU	A	299	40.505	26.463	45.927	1.00	41.98	O
ATOM	2292	OE2	GLU	A	299	41.265	26.710	47.995	1.00	40.64	O
ATOM	2293	N	ALA	A	300	39.163	31.352	43.570	1.00	34.76	N
ATOM	2294	CA	ALA	A	300	39.054	31.927	42.249	1.00	32.58	C
ATOM	2295	C	ALA	A	300	39.425	33.393	42.265	1.00	32.44	C
ATOM	2296	O	ALA	A	300	40.212	33.839	41.427	1.00	31.68	O
ATOM	2297	CB	ALA	A	300	37.654	31.737	41.712	1.00	34.40	C
ATOM	2298	N	VAL	A	301	38.893	34.159	43.221	1.00	31.19	N
ATOM	2299	CA	VAL	A	301	39.211	35.577	43.267	1.00	30.68	C
ATOM	2300	C	VAL	A	301	40.647	35.894	43.705	1.00	32.02	C
ATOM	2301	O	VAL	A	301	41.307	36.761	43.113	1.00	31.63	O
ATOM	2302	CB	VAL	A	301	38.235	36.372	44.208	1.00	30.74	C
ATOM	2303	CG1	VAL	A	301	38.671	37.842	44.284	1.00	30.07	C
ATOM	2304	CG2	VAL	A	301	36.806	36.292	43.683	1.00	27.82	C
ATOM	2305	N	LYS	A	302	41.114	35.205	44.748	1.00	33.20	N
ATOM	2306	CA	LYS	A	302	42.449	35.442	45.285	1.00	35.36	C
ATOM	2307	C	LYS	A	302	43.514	34.959	44.311	1.00	36.73	C
ATOM	2308	O	LYS	A	302	44.676	35.375	44.374	1.00	37.12	O
ATOM	2309	CB	LYS	A	302	42.587	34.770	46.653	1.00	34.94	C
ATOM	2310	CG	LYS	A	302	41.774	35.470	47.753	1.00	34.60	C
ATOM	2311	CD	LYS	A	302	41.859	34.737	49.077	1.00	34.21	C
ATOM	2312	CE	LYS	A	302	41.396	35.620	50.229	1.00	34.74	C
ATOM	2313	NZ	LYS	A	302	42.181	36.886	50.344	1.00	34.43	N



ATOM	2314	N	ALA	A	303	43.092	34.088	43.403	1.00	38.12	N
ATOM	2315	CA	ALA	A	303	43.980	33.574	42.386	1.00	38.87	C
ATOM	2316	C	ALA	A	303	44.450	34.754	41.557	1.00	39.55	C
ATOM	2317	O	ALA	A	303	45.530	34.726	41.006	1.00	40.28	O
ATOM	2318	CB	ALA	A	303	43.249	32.582	41.510	1.00	38.40	C
ATOM	2319	N	GLU	A	304	43.655	35.815	41.496	1.00	40.14	N
ATOM	2320	CA	GLU	A	304	44.038	36.968	40.699	1.00	40.69	C
ATOM	2321	C	GLU	A	304	44.300	38.200	41.544	1.00	40.07	C
ATOM	2322	O	GLU	A	304	45.064	39.080	41.151	1.00	40.56	O
ATOM	2323	CB	GLU	A	304	42.953	37.253	39.662	1.00	43.22	C
ATOM	2324	CG	GLU	A	304	43.276	38.387	38.711	1.00	47.70	C
ATOM	2325	CD	GLU	A	304	42.484	38.279	37.413	1.00	50.30	C
ATOM	2326	OE1	GLU	A	304	41.263	37.998	37.473	1.00	51.88	O
ATOM	2327	OE2	GLU	A	304	43.079	38.479	36.333	1.00	52.22	O
ATOM	2328	N	TYR	A	305	43.646	38.265	42.699	1.00	38.97	N
ATOM	2329	CA	TYR	A	305	43.812	39.373	43.645	1.00	37.79	C
ATOM	2330	C	TYR	A	305	44.051	38.690	44.993	1.00	37.83	C
ATOM	2331	O	TYR	A	305	43.125	38.432	45.759	1.00	37.82	O
ATOM	2332	CB	TYR	A	305	42.546	40.229	43.667	1.00	36.39	C
ATOM	2333	CG	TYR	A	305	42.329	40.983	42.375	1.00	35.38	C
ATOM	2334	CD1	TYR	A	305	43.016	42.167	42.112	1.00	35.41	C
ATOM	2335	CD2	TYR	A	305	41.464	40.495	41.402	1.00	34.95	C
ATOM	2336	CE1	TYR	A	305	42.847	42.849	40.905	1.00	36.06	C
ATOM	2337	CE2	TYR	A	305	41.286	41.161	40.196	1.00	35.15	C
ATOM	2338	CZ	TYR	A	305	41.976	42.332	39.947	1.00	34.06	C
ATOM	2339	OH	TYR	A	305	41.828	42.957	38.736	1.00	34.85	O
ATOM	2340	N	PRO	A	306	45.316	38.371	45.286	1.00	38.01	N
ATOM	2341	CA	PRO	A	306	45.703	37.697	46.525	1.00	37.91	C
ATOM	2342	C	PRO	A	306	45.291	38.393	47.808	1.00	36.30	C
ATOM	2343	O	PRO	A	306	44.837	37.731	48.738	1.00	37.27	O
ATOM	2344	CB	PRO	A	306	47.221	37.577	46.397	1.00	36.90	C
ATOM	2345	CG	PRO	A	306	47.459	37.646	44.937	1.00	37.64	C
ATOM	2346	CD	PRO	A	306	46.515	38.727	44.510	1.00	37.85	C
ATOM	2347	N	ASP	A	307	45.442	39.713	47.844	1.00	35.88	N
ATOM	2348	CA	ASP	A	307	45.102	40.494	49.031	1.00	35.30	C
ATOM	2349	C	ASP	A	307	43.645	40.964	49.154	1.00	35.89	C
ATOM	2350	O	ASP	A	307	43.305	41.663	50.122	1.00	35.74	O
ATOM	2351	CB	ASP	A	307	46.015	41.720	49.120	1.00	36.76	C
ATOM	2352	CG	ASP	A	307	47.464	41.356	49.411	1.00	37.92	C
ATOM	2353	OD1	ASP	A	307	47.712	40.197	49.812	1.00	36.10	O
ATOM	2354	OD2	ASP	A	307	48.341	42.242	49.253	1.00	38.85	O
ATOM	2355	N	GLN	A	308	42.796	40.604	48.191	1.00	33.70	N
ATOM	2356	CA	GLN	A	308	41.392	41.016	48.219	1.00	32.76	C
ATOM	2357	C	GLN	A	308	40.600	40.394	49.351	1.00	31.47	C
ATOM	2358	O	GLN	A	308	40.462	39.178	49.407	1.00	32.63	O
ATOM	2359	CB	GLN	A	308	40.695	40.665	46.891	1.00	32.45	C
ATOM	2360	CG	GLN	A	308	39.233	41.128	46.775	1.00	29.08	C
ATOM	2361	CD	GLN	A	308	39.067	42.663	46.962	1.00	30.07	C
ATOM	2362	OE1	GLN	A	308	38.367	43.099	47.875	1.00	32.47	O
ATOM	2363	NE2	GLN	A	308	39.712	43.464	46.119	1.00	26.41	N
ATOM	2364	N	MET	A	309	40.072	41.225	50.253	1.00	31.05	N
ATOM	2365	CA	MET	A	309	39.258	40.706	51.350	1.00	30.18	C
ATOM	2366	C	MET	A	309	37.838	40.469	50.841	1.00	29.24	C
ATOM	2367	O	MET	A	309	37.353	41.195	49.966	1.00	28.06	O
ATOM	2368	CB	MET	A	309	39.196	41.690	52.519	1.00	30.95	C
ATOM	2369	CG	MET	A	309	40.533	41.968	53.194	1.00	33.10	C
ATOM	2370	SD	MET	A	309	40.296	42.839	54.760	1.00	33.63	S
ATOM	2371	CE	MET	A	309	40.514	44.494	54.231	1.00	33.01	C
ATOM	2372	N	LEU	A	310	37.190	39.468	51.418	1.00	28.85	N
ATOM	2373	CA	LEU	A	310	35.820	39.073	51.080	1.00	28.25	C
ATOM	2374	C	LEU	A	310	34.827	39.274	52.250	1.00	27.26	C
ATOM	2375	O	LEU	A	310	35.227	39.387	53.419	1.00	25.62	O
ATOM	2376	CB	LEU	A	310	35.825	37.597	50.661	1.00	29.34	C
ATOM	2377	CG	LEU	A	310	36.853	37.267	49.573	1.00	29.52	C
ATOM	2378	CD1	LEU	A	310	36.757	35.827	49.233	1.00	29.31	C
ATOM	2379	CD2	LEU	A	310	36.621	38.124	48.336	1.00	30.86	C
ATOM	2380	N	ALA	A	311	33.535	39.333	51.933	1.00	26.38	N
ATOM	2381	CA	ALA	A	311	32.509	39.477	52.962	1.00	25.32	C
ATOM	2382	C	ALA	A	311	31.485	38.378	52.724	1.00	24.42	C
ATOM	2383	O	ALA	A	311	31.256	37.964	51.579	1.00	25.45	O
ATOM	2384	CB	ALA	A	311	31.847	40.855	52.885	1.00	24.81	C
ATOM	2385	N	TYR	A	312	30.889	37.880	53.797	1.00	23.66	N
ATOM	2386	CA	TYR	A	312	29.922	36.815	53.681	1.00	22.87	C
ATOM	2387	C	TYR	A	312	28.694	37.091	54.508	1.00	23.46	C
ATOM	2388	O	TYR	A	312	28.783	37.602	55.623	1.00	24.52	O
ATOM	2389	CB	TYR	A	312	30.569	35.466	54.090	1.00	22.33	C
ATOM	2390	CG	TYR	A	312	29.778	34.247	53.701	1.00	22.38	C
ATOM	2391	CD1	TYR	A	312	28.680	33.833	54.459	1.00	21.13	C
ATOM	2392	CD2	TYR	A	312	30.096	33.527	52.550	1.00	21.14	C
ATOM	2393	CE1	TYR	A	312	27.930	32.763	54.101	1.00	21.61	C



ATOM	2394	CE2	TYR	A	312	29.325	32.410	52.164	1.00	22.44	C
ATOM	2395	CZ	TYR	A	312	28.248	32.039	52.946	1.00	22.94	C
ATOM	2396	OH	TYR	A	312	27.480	30.953	52.611	1.00	22.14	O
ATOM	2397	N	ASN	A	313	27.539	36.761	53.944	1.00	23.39	N
ATOM	2398	CA	ASN	A	313	26.254	36.961	54.591	1.00	22.35	C
ATOM	2399	C	ASN	A	313	25.724	35.660	55.179	1.00	23.73	C
ATOM	2400	O	ASN	A	313	25.266	34.777	54.444	1.00	24.30	O
ATOM	2401	CB	ASN	A	313	25.241	37.563	53.552	1.00	22.48	C
ATOM	2402	CG	ASN	A	313	23.808	37.596	54.070	1.00	22.34	C
ATOM	2403	OD1	ASN	A	313	23.563	37.404	55.251	1.00	22.05	O
ATOM	2404	ND2	ASN	A	313	22.849	37.844	53.173	1.00	21.74	N
ATOM	2405	N	CYS	A	314	25.807	35.518	56.511	1.00	23.65	N
ATOM	2406	CA	CYS	A	314	25.270	34.328	57.176	1.00	22.82	C
ATOM	2407	C	CYS	A	314	23.795	34.681	57.363	1.00	22.45	C
ATOM	2408	O	CYS	A	314	23.361	35.091	58.443	1.00	21.77	O
ATOM	2409	CB	CYS	A	314	25.974	34.088	58.526	1.00	22.90	C
ATOM	2410	SG	CYS	A	314	27.782	33.986	58.330	1.00	26.54	S
ATOM	2411	N	SER	A	315	23.026	34.512	56.291	1.00	22.59	N
ATOM	2412	CA	SER	A	315	21.617	34.895	56.268	1.00	22.39	C
ATOM	2413	C	SER	A	315	20.538	34.103	56.951	1.00	22.58	C
ATOM	2414	O	SER	A	315	20.522	32.867	56.886	1.00	24.03	O
ATOM	2415	CB	SER	A	315	21.177	35.096	54.810	1.00	22.87	C
ATOM	2416	OG	SER	A	315	19.787	35.496	54.736	1.00	24.26	O
ATOM	2417	N	PRO	A	316	19.622	34.799	57.667	1.00	20.99	N
ATOM	2418	CA	PRO	A	316	18.521	34.116	58.336	1.00	21.00	C
ATOM	2419	C	PRO	A	316	17.551	33.582	57.287	1.00	19.71	C
ATOM	2420	O	PRO	A	316	16.595	32.861	57.623	1.00	21.71	O
ATOM	2421	CB	PRO	A	316	17.866	35.213	59.177	1.00	19.79	C
ATOM	2422	CG	PRO	A	316	19.036	36.036	59.599	1.00	20.94	C
ATOM	2423	CD	PRO	A	316	19.844	36.129	58.278	1.00	22.44	C
ATOM	2424	N	SER	A	317	17.770	33.978	56.029	1.00	20.56	N
ATOM	2425	CA	SER	A	317	16.942	33.515	54.936	1.00	19.37	C
ATOM	2426	C	SER	A	317	17.305	32.043	54.618	1.00	20.82	C
ATOM	2427	O	SER	A	317	16.668	31.421	53.790	1.00	19.61	O
ATOM	2428	CB	SER	A	317	17.116	34.387	53.684	1.00	19.33	C
ATOM	2429	OG	SER	A	317	16.580	35.698	53.893	1.00	21.72	O
ATOM	2430	N	PHE	A	318	18.339	31.515	55.262	1.00	21.51	N
ATOM	2431	CA	PHE	A	318	18.694	30.099	55.087	1.00	22.96	C
ATOM	2432	C	PHE	A	318	18.073	29.326	56.243	1.00	26.35	C
ATOM	2433	O	PHE	A	318	17.981	29.854	57.365	1.00	27.50	O
ATOM	2434	CB	PHE	A	318	20.195	29.876	55.174	1.00	21.27	C
ATOM	2435	CG	PHE	A	318	20.984	30.582	54.135	1.00	22.27	C
ATOM	2436	CD1	PHE	A	318	20.515	30.684	52.832	1.00	20.68	C
ATOM	2437	CD2	PHE	A	318	22.242	31.140	54.457	1.00	20.12	C
ATOM	2438	CE1	PHE	A	318	21.275	31.326	51.856	1.00	23.29	C
ATOM	2439	CE2	PHE	A	318	23.003	31.779	53.496	1.00	22.60	C
ATOM	2440	CZ	PHE	A	318	22.519	31.872	52.181	1.00	22.92	C
ATOM	2441	N	ASN	A	319	17.611	28.099	55.993	1.00	27.04	N
ATOM	2442	CA	ASN	A	319	17.096	27.260	57.082	1.00	28.77	C
ATOM	2443	C	ASN	A	319	18.393	26.528	57.422	1.00	31.01	C
ATOM	2444	O	ASN	A	319	18.717	25.510	56.790	1.00	30.72	O
ATOM	2445	CB	ASN	A	319	16.046	26.269	56.562	1.00	29.94	C
ATOM	2446	CG	ASN	A	319	15.577	25.320	57.618	1.00	31.61	C
ATOM	2447	OD1	ASN	A	319	14.449	24.822	57.560	1.00	33.34	O
ATOM	2448	ND2	ASN	A	319	16.426	25.057	58.602	1.00	31.24	N
ATOM	2449	N	TRP	A	320	19.151	27.057	58.385	1.00	30.26	N
ATOM	2450	CA	TRP	A	320	20.462	26.479	58.711	1.00	32.02	C
ATOM	2451	C	TRP	A	320	20.556	24.983	59.030	1.00	33.57	C
ATOM	2452	O	TRP	A	320	21.369	24.279	58.411	1.00	33.34	O
ATOM	2453	CB	TRP	A	320	21.141	27.296	59.812	1.00	28.62	C
ATOM	2454	CG	TRP	A	320	21.535	28.632	59.301	1.00	28.84	C
ATOM	2455	CD1	TRP	A	320	20.704	29.701	59.086	1.00	29.02	C
ATOM	2456	CD2	TRP	A	320	22.840	29.050	58.885	1.00	26.68	C
ATOM	2457	NE1	TRP	A	320	21.415	30.759	58.564	1.00	25.89	N
ATOM	2458	CE2	TRP	A	320	22.724	30.391	58.429	1.00	27.39	C
ATOM	2459	CE3	TRP	A	320	24.093	28.431	58.848	1.00	27.35	C
ATOM	2460	CZ2	TRP	A	320	23.808	31.118	57.943	1.00	27.30	C
ATOM	2461	CZ3	TRP	A	320	25.185	29.161	58.358	1.00	28.22	C
ATOM	2462	CH2	TRP	A	320	25.031	30.495	57.911	1.00	29.55	C
ATOM	2463	N	LYS	A	321	19.745	24.485	59.959	1.00	35.15	N
ATOM	2464	CA	LYS	A	321	19.841	23.065	60.258	1.00	37.54	C
ATOM	2465	C	LYS	A	321	19.343	22.162	59.125	1.00	38.64	C
ATOM	2466	O	LYS	A	321	19.664	20.975	59.086	1.00	38.17	O
ATOM	2467	CB	LYS	A	321	19.141	22.742	61.580	1.00	37.01	C
ATOM	2468	CG	LYS	A	321	20.027	23.067	62.783	1.00	37.26	C
ATOM	2469	CD	LYS	A	321	19.358	22.781	64.122	1.00	37.87	C
ATOM	2470	CE	LYS	A	321	19.183	21.290	64.377	1.00	41.16	C
ATOM	2471	NZ	LYS	A	321	20.478	20.567	64.392	1.00	41.97	N
ATOM	2472	N	LYS	A	322	18.575	22.712	58.188	1.00	40.13	N
ATOM	2473	CA	LYS	A	322	18.115	21.884	57.084	1.00	40.96	C



ATOM	2474	C	LYS	A	322	19.278	21.566	56.144	1.00	40.76	C
ATOM	2475	O	LYS	A	322	19.259	20.544	55.458	1.00	40.63	O
ATOM	2476	CB	LYS	A	322	16.986	22.563	56.304	1.00	41.61	C
ATOM	2477	CG	LYS	A	322	16.668	21.846	54.994	1.00	43.12	C
ATOM	2478	CD	LYS	A	322	15.455	22.409	54.265	1.00	44.87	C
ATOM	2479	CE	LYS	A	322	15.139	21.547	53.036	1.00	46.46	C
ATOM	2480	NZ	LYS	A	322	13.872	21.923	52.349	1.00	48.39	N
ATOM	2481	N	HIS	A	323	20.297	22.423	56.128	1.00	40.67	N
ATOM	2482	CA	HIS	A	323	21.454	22.223	55.256	1.00	41.85	C
ATOM	2483	C	HIS	A	323	22.727	21.787	55.947	1.00	41.52	C
ATOM	2484	O	HIS	A	323	23.557	21.114	55.341	1.00	40.66	O
ATOM	2485	CB	HIS	A	323	21.786	23.505	54.480	1.00	44.05	C
ATOM	2486	CG	HIS	A	323	20.677	23.970	53.592	1.00	47.25	C
ATOM	2487	ND1	HIS	A	323	20.425	23.406	52.359	1.00	47.99	N
ATOM	2488	CD2	HIS	A	323	19.685	24.868	53.806	1.00	48.62	C
ATOM	2489	CE1	HIS	A	323	19.322	23.930	51.855	1.00	49.07	C
ATOM	2490	NE2	HIS	A	323	18.852	24.819	52.715	1.00	50.20	N
ATOM	2491	N	LEU	A	324	22.898	22.171	57.206	1.00	40.24	N
ATOM	2492	CA	LEU	A	324	24.129	21.839	57.910	1.00	39.58	C
ATOM	2493	C	LEU	A	324	23.898	21.103	59.220	1.00	39.12	C
ATOM	2494	O	LEU	A	324	22.817	21.167	59.784	1.00	38.49	O
ATOM	2495	CB	LEU	A	324	24.911	23.126	58.182	1.00	39.14	C
ATOM	2496	CG	LEU	A	324	25.274	23.969	56.960	1.00	38.23	C
ATOM	2497	CD1	LEU	A	324	25.895	25.272	57.416	1.00	38.75	C
ATOM	2498	CD2	LEU	A	324	26.250	23.233	56.081	1.00	39.23	C
ATOM	2499	N	ASP	A	325	24.920	20.384	59.682	1.00	38.73	N
ATOM	2500	CA	ASP	A	325	24.831	19.687	60.961	1.00	38.56	C
ATOM	2501	C	ASP	A	325	25.477	20.633	61.967	1.00	37.38	C
ATOM	2502	O	ASP	A	325	26.253	21.507	61.578	1.00	35.90	O
ATOM	2503	CB	ASP	A	325	25.584	18.345	60.939	1.00	38.53	C
ATOM	2504	CG	ASP	A	325	27.034	18.481	60.515	1.00	39.28	C
ATOM	2505	OD1	ASP	A	325	27.519	19.604	60.313	1.00	39.31	O
ATOM	2506	OD2	ASP	A	325	27.709	17.437	60.372	1.00	43.71	O
ATOM	2507	N	ASP	A	326	25.167	20.456	63.250	1.00	36.01	N
ATOM	2508	CA	ASP	A	326	25.713	21.337	64.274	1.00	35.43	C
ATOM	2509	C	ASP	A	326	27.222	21.495	64.243	1.00	35.60	C
ATOM	2510	O	ASP	A	326	27.746	22.546	64.586	1.00	34.51	O
ATOM	2511	CB	ASP	A	326	25.242	20.880	65.646	1.00	36.38	C
ATOM	2512	CG	ASP	A	326	23.729	20.866	65.750	1.00	36.37	C
ATOM	2513	OD1	ASP	A	326	23.063	21.560	64.951	1.00	37.20	O
ATOM	2514	OD2	ASP	A	326	23.192	20.177	66.631	1.00	36.30	O
ATOM	2515	N	ALA	A	327	27.938	20.460	63.817	1.00	35.46	N
ATOM	2516	CA	ALA	A	327	29.391	20.562	63.755	1.00	34.47	C
ATOM	2517	C	ALA	A	327	29.835	21.646	62.761	1.00	33.71	C
ATOM	2518	O	ALA	A	327	30.706	22.479	63.058	1.00	32.41	O
ATOM	2519	CB	ALA	A	327	29.998	19.186	63.377	1.00	35.19	C
ATOM	2520	N	THR	A	328	29.219	21.639	61.578	1.00	33.41	N
ATOM	2521	CA	THR	A	328	29.554	22.606	60.525	1.00	32.73	C
ATOM	2522	C	THR	A	328	29.077	24.007	60.895	1.00	31.53	C
ATOM	2523	O	THR	A	328	29.781	24.986	60.671	1.00	30.89	O
ATOM	2524	CB	THR	A	328	28.912	22.188	59.178	1.00	32.15	C
ATOM	2525	OG1	THR	A	328	29.192	20.807	58.945	1.00	33.83	O
ATOM	2526	CG2	THR	A	328	29.487	22.998	58.012	1.00	34.73	C
ATOM	2527	N	ILE	A	329	27.869	24.085	61.438	1.00	31.17	N
ATOM	2528	CA	ILE	A	329	27.310	25.362	61.868	1.00	31.09	C
ATOM	2529	C	ILE	A	329	28.264	26.013	62.850	1.00	31.01	C
ATOM	2530	O	ILE	A	329	28.565	27.196	62.748	1.00	31.92	O
ATOM	2531	CB	ILE	A	329	25.971	25.160	62.582	1.00	29.89	C
ATOM	2532	CG1	ILE	A	329	24.898	24.800	61.558	1.00	26.80	C
ATOM	2533	CG2	ILE	A	329	25.644	26.399	63.416	1.00	26.74	C
ATOM	2534	CD1	ILE	A	329	23.572	24.355	62.139	1.00	29.88	C
ATOM	2535	N	ALA	A	330	28.757	25.223	63.804	1.00	31.00	N
ATOM	2536	CA	ALA	A	330	29.663	25.749	64.810	1.00	30.21	C
ATOM	2537	C	ALA	A	330	31.001	26.228	64.259	1.00	30.88	C
ATOM	2538	O	ALA	A	330	31.574	27.170	64.778	1.00	29.63	O
ATOM	2539	CB	ALA	A	330	29.878	24.693	65.917	1.00	32.25	C
ATOM	2540	N	LYS	A	331	31.516	25.596	63.208	1.00	31.67	N
ATOM	2541	CA	LYS	A	331	32.814	26.025	62.660	1.00	32.94	C
ATOM	2542	C	LYS	A	331	32.687	26.984	61.463	1.00	31.93	C
ATOM	2543	O	LYS	A	331	33.672	27.556	60.966	1.00	32.18	O
ATOM	2544	CB	LYS	A	331	33.622	24.781	62.233	1.00	34.96	C
ATOM	2545	CG	LYS	A	331	33.007	24.019	61.057	1.00	36.86	C
ATOM	2546	CD	LYS	A	331	33.914	22.868	60.587	1.00	39.00	C
ATOM	2547	CE	LYS	A	331	33.280	22.099	59.439	1.00	39.99	C
ATOM	2548	NZ	LYS	A	331	34.108	20.910	59.067	1.00	41.76	N
ATOM	2549	N	PHE	A	332	31.458	27.182	61.023	1.00	31.15	N
ATOM	2550	CA	PHE	A	332	31.187	28.009	59.855	1.00	30.33	C
ATOM	2551	C	PHE	A	332	32.016	29.300	59.686	1.00	29.89	C
ATOM	2552	O	PHE	A	332	32.779	29.425	58.720	1.00	29.37	O
ATOM	2553	CB	PHE	A	332	29.684	28.322	59.819	1.00	31.92	C



ATOM	2554	CG	PHE	A	332	29.159	28.615	58.436	1.00	34.23	C
ATOM	2555	CD1	PHE	A	332	28.861	27.578	57.557	1.00	33.61	C
ATOM	2556	CD2	PHE	A	332	28.996	29.934	58.005	1.00	34.01	C
ATOM	2557	CE1	PHE	A	332	28.409	27.849	56.263	1.00	34.54	C
ATOM	2558	CE2	PHE	A	332	28.545	30.218	56.712	1.00	33.94	C
ATOM	2559	CZ	PHE	A	332	28.253	29.174	55.842	1.00	34.70	C
ATOM	2560	N	GLN	A	333	31.893	30.252	60.619	1.00	28.63	N
ATOM	2561	CA	GLN	A	333	32.614	31.510	60.483	1.00	27.93	C
ATOM	2562	C	GLN	A	333	34.115	31.393	60.557	1.00	28.92	C
ATOM	2563	O	GLN	A	333	34.841	32.105	59.836	1.00	28.93	O
ATOM	2564	CB	GLN	A	333	32.136	32.540	61.523	1.00	29.81	C
ATOM	2565	CG	GLN	A	333	30.643	32.890	61.404	1.00	28.47	C
ATOM	2566	CD	GLN	A	333	30.282	34.251	61.999	1.00	29.16	C
ATOM	2567	OE1	GLN	A	333	31.094	34.896	62.668	1.00	29.49	O
ATOM	2568	NE2	GLN	A	333	29.054	34.697	61.743	1.00	29.27	N
ATOM	2569	N	LYS	A	334	34.596	30.526	61.449	1.00	29.81	N
ATOM	2570	CA	LYS	A	334	36.047	30.332	61.588	1.00	30.54	C
ATOM	2571	C	LYS	A	334	36.604	29.828	60.258	1.00	29.24	C
ATOM	2572	O	LYS	A	334	37.614	30.323	59.763	1.00	27.65	O
ATOM	2573	CB	LYS	A	334	36.324	29.321	62.702	1.00	32.23	C
ATOM	2574	CG	LYS	A	334	37.761	29.307	63.178	1.00	36.08	C
ATOM	2575	CD	LYS	A	334	37.840	28.605	64.536	1.00	38.73	C
ATOM	2576	CE	LYS	A	334	39.270	28.480	65.044	1.00	41.04	C
ATOM	2577	NZ	LYS	A	334	39.977	29.798	65.092	1.00	42.98	N
ATOM	2578	N	GLU	A	335	35.918	28.843	59.686	1.00	29.86	N
ATOM	2579	CA	GLU	A	335	36.321	28.258	58.406	1.00	32.82	C
ATOM	2580	C	GLU	A	335	36.318	29.326	57.321	1.00	32.58	C
ATOM	2581	O	GLU	A	335	37.318	29.509	56.605	1.00	33.18	O
ATOM	2582	CB	GLU	A	335	35.367	27.114	58.008	1.00	35.51	C
ATOM	2583	CG	GLU	A	335	35.450	25.848	58.871	1.00	38.15	C
ATOM	2584	CD	GLU	A	335	36.797	25.128	58.728	1.00	41.83	C
ATOM	2585	OE1	GLU	A	335	37.210	24.850	57.582	1.00	42.86	O
ATOM	2586	OE2	GLU	A	335	37.442	24.830	59.760	1.00	43.64	O
ATOM	2587	N	LEU	A	336	35.197	30.039	57.191	1.00	31.90	N
ATOM	2588	CA	LEU	A	336	35.118	31.084	56.194	1.00	30.73	C
ATOM	2589	C	LEU	A	336	36.235	32.064	56.387	1.00	29.80	C
ATOM	2590	O	LEU	A	336	36.818	32.530	55.427	1.00	28.66	O
ATOM	2591	CB	LEU	A	336	33.788	31.843	56.277	1.00	30.61	C
ATOM	2592	CG	LEU	A	336	32.521	31.253	55.659	1.00	31.81	C
ATOM	2593	CD1	LEU	A	336	31.359	32.199	55.998	1.00	29.30	C
ATOM	2594	CD2	LEU	A	336	32.664	31.094	54.133	1.00	29.53	C
ATOM	2595	N	ALA	A	337	36.541	32.375	57.642	1.00	31.17	N
ATOM	2596	CA	ALA	A	337	37.588	33.354	57.942	1.00	32.70	C
ATOM	2597	C	ALA	A	337	38.938	32.956	57.373	1.00	33.42	C
ATOM	2598	O	ALA	A	337	39.702	33.807	56.881	1.00	32.98	O
ATOM	2599	CB	ALA	A	337	37.691	33.575	59.453	1.00	34.49	C
ATOM	2600	N	ALA	A	338	39.228	31.665	57.426	1.00	35.58	N
ATOM	2601	CA	ALA	A	338	40.503	31.160	56.898	1.00	36.23	C
ATOM	2602	C	ALA	A	338	40.553	31.305	55.376	1.00	36.79	C
ATOM	2603	O	ALA	A	338	41.648	31.390	54.795	1.00	37.63	O
ATOM	2604	CB	ALA	A	338	40.692	29.710	57.296	1.00	37.48	C
ATOM	2605	N	MET	A	339	39.375	31.342	54.739	1.00	35.78	N
ATOM	2606	CA	MET	A	339	39.275	31.498	53.286	1.00	35.37	C
ATOM	2607	C	MET	A	339	39.471	32.954	52.858	1.00	35.16	C
ATOM	2608	O	MET	A	339	39.725	33.242	51.690	1.00	35.07	O
ATOM	2609	CB	MET	A	339	37.913	31.002	52.785	1.00	36.37	C
ATOM	2610	CG	MET	A	339	37.676	29.512	52.994	1.00	36.83	C
ATOM	2611	SD	MET	A	339	36.036	29.012	52.474	1.00	40.63	S
ATOM	2612	CE	MET	A	339	35.674	27.616	53.467	1.00	35.41	C
ATOM	2613	N	GLY	A	340	39.362	33.885	53.805	1.00	34.57	N
ATOM	2614	CA	GLY	A	340	39.538	35.285	53.449	1.00	32.01	C
ATOM	2615	C	GLY	A	340	38.287	36.143	53.616	1.00	30.77	C
ATOM	2616	O	GLY	A	340	38.269	37.296	53.182	1.00	31.77	O
ATOM	2617	N	PHE	A	341	37.242	35.577	54.207	1.00	29.22	N
ATOM	2618	CA	PHE	A	341	36.002	36.315	54.455	1.00	30.29	C
ATOM	2619	C	PHE	A	341	36.179	37.036	55.801	1.00	29.11	C
ATOM	2620	O	PHE	A	341	35.808	36.504	56.850	1.00	29.18	O
ATOM	2621	CB	PHE	A	341	34.815	35.344	54.501	1.00	30.13	C
ATOM	2622	CG	PHE	A	341	34.483	34.730	53.162	1.00	31.25	C
ATOM	2623	CD1	PHE	A	341	33.841	35.479	52.172	1.00	32.83	C
ATOM	2624	CD2	PHE	A	341	34.879	33.426	52.861	1.00	30.98	C
ATOM	2625	CE1	PHE	A	341	33.609	34.931	50.893	1.00	32.00	C
ATOM	2626	CE2	PHE	A	341	34.657	32.879	51.614	1.00	31.18	C
ATOM	2627	CZ	PHE	A	341	34.025	33.626	50.620	1.00	33.04	C
ATOM	2628	N	LYS	A	342	36.789	38.226	55.736	1.00	28.33	N
ATOM	2629	CA	LYS	A	342	37.077	39.064	56.911	1.00	28.48	C
ATOM	2630	C	LYS	A	342	35.890	39.821	57.540	1.00	28.07	C
ATOM	2631	O	LYS	A	342	35.984	40.283	58.674	1.00	26.18	O
ATOM	2632	CB	LYS	A	342	38.185	40.058	56.572	1.00	28.03	C
ATOM	2633	CG	LYS	A	342	39.493	39.371	56.227	1.00	30.40	C



ATOM	2634	CD	LYS	A	342	39.766	38.227	57.214	1.00	31.27	C
ATOM	2635	CE	LYS	A	342	41.139	37.594	56.996	1.00	32.74	C
ATOM	2636	NZ	LYS	A	342	41.270	36.368	57.833	1.00	34.27	N
ATOM	2637	N	PHE	A	343	34.801	39.994	56.795	1.00	26.54	N
ATOM	2638	CA	PHE	A	343	33.622	40.630	57.388	1.00	25.02	C
ATOM	2639	C	PHE	A	343	32.456	39.685	57.219	1.00	23.38	C
ATOM	2640	O	PHE	A	343	32.105	39.340	56.100	1.00	24.38	O
ATOM	2641	CB	PHE	A	343	33.275	41.949	56.726	1.00	24.51	C
ATOM	2642	CG	PHE	A	343	32.132	42.656	57.406	1.00	21.94	C
ATOM	2643	CD1	PHE	A	343	32.269	43.141	58.718	1.00	22.49	C
ATOM	2644	CD2	PHE	A	343	30.914	42.815	56.757	1.00	24.01	C
ATOM	2645	CE1	PHE	A	343	31.193	43.782	59.374	1.00	23.46	C
ATOM	2646	CE2	PHE	A	343	29.825	43.464	57.408	1.00	23.39	C
ATOM	2647	CZ	PHE	A	343	29.971	43.941	58.707	1.00	23.38	C
ATOM	2648	N	GLN	A	344	31.862	39.262	58.324	1.00	23.54	N
ATOM	2649	CA	GLN	A	344	30.742	38.315	58.287	1.00	23.00	C
ATOM	2650	C	GLN	A	344	29.591	38.835	59.137	1.00	24.15	C
ATOM	2651	O	GLN	A	344	29.793	39.373	60.237	1.00	26.22	O
ATOM	2652	CB	GLN	A	344	31.184	36.961	58.797	1.00	24.60	C
ATOM	2653	CG	GLN	A	344	32.314	36.378	57.963	1.00	25.21	C
ATOM	2654	CD	GLN	A	344	32.810	35.070	58.541	1.00	25.96	C
ATOM	2655	OE1	GLN	A	344	34.013	34.825	58.569	1.00	28.99	O
ATOM	2656	NE2	GLN	A	344	31.892	34.231	59.001	1.00	24.54	N
ATOM	2657	N	PHE	A	345	28.373	38.607	58.674	1.00	24.12	N
ATOM	2658	CA	PHE	A	345	27.238	39.196	59.365	1.00	21.69	C
ATOM	2659	C	PHE	A	345	25.902	38.490	59.199	1.00	21.58	C
ATOM	2660	O	PHE	A	345	25.643	37.891	58.152	1.00	21.28	O
ATOM	2661	CB	PHE	A	345	27.125	40.620	58.848	1.00	21.41	C
ATOM	2662	CG	PHE	A	345	27.054	40.727	57.333	1.00	23.02	C
ATOM	2663	CD1	PHE	A	345	28.207	40.692	56.558	1.00	22.29	C
ATOM	2664	CD2	PHE	A	345	25.821	40.891	56.685	1.00	21.26	C
ATOM	2665	CE1	PHE	A	345	28.146	40.818	55.180	1.00	23.21	C
ATOM	2666	CE2	PHE	A	345	25.752	41.018	55.297	1.00	21.72	C
ATOM	2667	CZ	PHE	A	345	26.920	40.980	54.546	1.00	23.48	C
ATOM	2668	N	ILE	A	346	25.050	38.576	60.223	1.00	18.41	N
ATOM	2669	CA	ILE	A	346	23.718	37.970	60.161	1.00	18.70	C
ATOM	2670	C	ILE	A	346	22.763	39.144	59.911	1.00	19.90	C
ATOM	2671	O	ILE	A	346	22.346	39.820	60.843	1.00	19.37	O
ATOM	2672	CB	ILE	A	346	23.331	37.275	61.483	1.00	18.20	C
ATOM	2673	CG1	ILE	A	346	24.350	36.162	61.790	1.00	16.74	C
ATOM	2674	CG2	ILE	A	346	21.946	36.614	61.368	1.00	19.05	C
ATOM	2675	CD1	ILE	A	346	24.061	35.420	63.088	1.00	18.66	C
ATOM	2676	N	THR	A	347	22.482	39.387	58.635	1.00	20.45	N
ATOM	2677	CA	THR	A	347	21.622	40.488	58.213	1.00	20.43	C
ATOM	2678	C	THR	A	347	20.379	40.745	59.022	1.00	19.11	C
ATOM	2679	O	THR	A	347	20.189	41.826	59.530	1.00	21.53	O
ATOM	2680	CB	THR	A	347	21.190	40.287	56.772	1.00	20.51	C
ATOM	2681	OG1	THR	A	347	20.515	39.032	56.675	1.00	19.03	O
ATOM	2682	CG2	THR	A	347	22.396	40.279	55.844	1.00	22.57	C
ATOM	2683	N	LEU	A	348	19.522	39.754	59.146	1.00	19.46	N
ATOM	2684	CA	LEU	A	348	18.241	39.945	59.825	1.00	18.45	C
ATOM	2685	C	LEU	A	348	18.160	39.564	61.286	1.00	18.44	C
ATOM	2686	O	LEU	A	348	17.069	39.269	61.789	1.00	16.17	O
ATOM	2687	CB	LEU	A	348	17.163	39.200	59.051	1.00	19.36	C
ATOM	2688	CG	LEU	A	348	17.223	39.368	57.528	1.00	23.32	C
ATOM	2689	CD1	LEU	A	348	15.922	38.802	56.953	1.00	22.90	C
ATOM	2690	CD2	LEU	A	348	17.390	40.825	57.123	1.00	20.78	C
ATOM	2691	N	ALA	A	349	19.310	39.583	61.963	1.00	16.91	N
ATOM	2692	CA	ALA	A	349	19.367	39.215	63.367	1.00	16.42	C
ATOM	2693	C	ALA	A	349	18.432	40.010	64.232	1.00	17.47	C
ATOM	2694	O	ALA	A	349	17.757	39.428	65.069	1.00	18.10	O
ATOM	2695	CB	ALA	A	349	20.804	39.313	63.901	1.00	19.83	C
ATOM	2696	N	GLY	A	350	18.340	41.316	63.986	1.00	17.28	N
ATOM	2697	CA	GLY	A	350	17.462	42.158	64.782	1.00	16.30	C
ATOM	2698	C	GLY	A	350	15.998	41.896	64.544	1.00	16.92	C
ATOM	2699	O	GLY	A	350	15.227	41.904	65.486	1.00	16.20	O
ATOM	2700	N	PHE	A	351	15.603	41.684	63.291	1.00	17.84	N
ATOM	2701	CA	PHE	A	351	14.196	41.406	63.019	1.00	17.27	C
ATOM	2702	C	PHE	A	351	13.779	40.174	63.813	1.00	18.14	C
ATOM	2703	O	PHE	A	351	12.761	40.155	64.489	1.00	16.85	O
ATOM	2704	CB	PHE	A	351	13.976	41.117	61.513	1.00	16.06	C
ATOM	2705	CG	PHE	A	351	12.585	40.589	61.183	1.00	17.95	C
ATOM	2706	CD1	PHE	A	351	11.531	41.472	60.901	1.00	17.35	C
ATOM	2707	CD2	PHE	A	351	12.332	39.214	61.171	1.00	18.89	C
ATOM	2708	CE1	PHE	A	351	10.225	40.987	60.598	1.00	20.02	C
ATOM	2709	CE2	PHE	A	351	11.046	38.716	60.882	1.00	18.66	C
ATOM	2710	CZ	PHE	A	351	9.991	39.598	60.592	1.00	19.58	C
ATOM	2711	N	HIS	A	352	14.568	39.114	63.713	1.00	17.69	N
ATOM	2712	CA	HIS	A	352	14.166	37.908	64.405	1.00	18.48	C
ATOM	2713	C	HIS	A	352	14.177	37.982	65.942	1.00	18.37	C



ATOM	2714	O	HIS	A	352	13.241	37.524	66.614	1.00	16.72	O
ATOM	2715	CB	HIS	A	352	14.994	36.748	63.828	1.00	17.93	C
ATOM	2716	CG	HIS	A	352	14.555	36.362	62.448	1.00	16.36	C
ATOM	2717	ND1	HIS	A	352	13.363	35.710	62.204	1.00	18.19	N
ATOM	2718	CD2	HIS	A	352	15.080	36.646	61.237	1.00	17.92	C
ATOM	2719	CE1	HIS	A	352	13.170	35.625	60.901	1.00	17.20	C
ATOM	2720	NE2	HIS	A	352	14.196	36.184	60.296	1.00	18.97	N
ATOM	2721	N	ALA	A	353	15.212	38.591	66.484	1.00	19.02	N
ATOM	2722	CA	ALA	A	353	15.309	38.723	67.929	1.00	19.63	C
ATOM	2723	C	ALA	A	353	14.133	39.533	68.472	1.00	20.28	C
ATOM	2724	O	ALA	A	353	13.490	39.148	69.459	1.00	20.65	O
ATOM	2725	CB	ALA	A	353	16.602	39.379	68.271	1.00	16.47	C
ATOM	2726	N	LEU	A	354	13.836	40.652	67.808	1.00	20.91	N
ATOM	2727	CA	LEU	A	354	12.749	41.530	68.220	1.00	18.36	C
ATOM	2728	C	LEU	A	354	11.391	40.875	68.077	1.00	18.52	C
ATOM	2729	O	LEU	A	354	10.606	40.924	68.986	1.00	19.99	O
ATOM	2730	CB	LEU	A	354	12.778	42.847	67.390	1.00	19.38	C
ATOM	2731	CG	LEU	A	354	11.707	43.921	67.728	1.00	19.92	C
ATOM	2732	CD1	LEU	A	354	12.170	45.328	67.247	1.00	16.76	C
ATOM	2733	CD2	LEU	A	354	10.363	43.563	67.076	1.00	19.32	C
ATOM	2734	N	ASN	A	355	11.106	40.282	66.923	1.00	17.93	N
ATOM	2735	CA	ASN	A	355	9.800	39.665	66.697	1.00	18.59	C
ATOM	2736	C	ASN	A	355	9.601	38.419	67.581	1.00	18.72	C
ATOM	2737	O	ASN	A	355	8.542	38.231	68.164	1.00	19.70	O
ATOM	2738	CB	ASN	A	355	9.632	39.234	65.232	1.00	17.88	C
ATOM	2739	CG	ASN	A	355	9.216	40.369	64.307	1.00	17.76	C
ATOM	2740	OD1	ASN	A	355	8.030	40.609	64.076	1.00	16.22	O
ATOM	2741	ND2	ASN	A	355	10.194	41.053	63.767	1.00	16.37	N
ATOM	2742	N	TYR	A	356	10.598	37.547	67.639	1.00	19.96	N
ATOM	2743	CA	TYR	A	356	10.431	36.352	68.462	1.00	20.56	C
ATOM	2744	C	TYR	A	356	10.300	36.710	69.956	1.00	20.95	C
ATOM	2745	O	TYR	A	356	9.403	36.197	70.623	1.00	20.00	O
ATOM	2746	CB	TYR	A	356	11.603	35.373	68.268	1.00	21.36	C
ATOM	2747	CG	TYR	A	356	11.509	34.182	69.211	1.00	24.86	C
ATOM	2748	CD1	TYR	A	356	10.564	33.184	69.001	1.00	25.26	C
ATOM	2749	CD2	TYR	A	356	12.273	34.135	70.382	1.00	25.24	C
ATOM	2750	CE1	TYR	A	356	10.364	32.174	69.940	1.00	26.79	C
ATOM	2751	CE2	TYR	A	356	12.082	33.137	71.323	1.00	26.97	C
ATOM	2752	CZ	TYR	A	356	11.126	32.164	71.098	1.00	28.28	C
ATOM	2753	OH	TYR	A	356	10.929	31.181	72.042	1.00	30.49	O
ATOM	2754	N	SER	A	357	11.156	37.596	70.473	1.00	21.35	N
ATOM	2755	CA	SER	A	357	11.085	37.949	71.899	1.00	21.83	C
ATOM	2756	C	SER	A	357	9.745	38.597	72.273	1.00	22.76	C
ATOM	2757	O	SER	A	357	9.180	38.311	73.371	1.00	21.10	O
ATOM	2758	CB	SER	A	357	12.261	38.843	72.302	1.00	22.28	C
ATOM	2759	OG	SER	A	357	12.141	40.128	71.734	1.00	24.83	O
ATOM	2760	N	MET	A	358	9.204	39.455	71.390	1.00	21.19	N
ATOM	2761	CA	MET	A	358	7.926	40.054	71.710	1.00	20.34	C
ATOM	2762	C	MET	A	358	6.829	39.008	71.589	1.00	21.16	C
ATOM	2763	O	MET	A	358	5.920	39.021	72.394	1.00	21.12	O
ATOM	2764	CB	MET	A	358	7.588	41.278	70.838	1.00	20.27	C
ATOM	2765	CG	MET	A	358	6.285	41.986	71.272	1.00	18.37	C
ATOM	2766	SD	MET	A	358	6.213	42.304	73.101	1.00	21.01	S
ATOM	2767	CE	MET	A	358	7.431	43.625	73.227	1.00	20.05	C
ATOM	2768	N	PHE	A	359	6.917	38.112	70.599	1.00	21.30	N
ATOM	2769	CA	PHE	A	359	5.895	37.061	70.484	1.00	22.64	C
ATOM	2770	C	PHE	A	359	5.963	36.180	71.747	1.00	21.66	C
ATOM	2771	O	PHE	A	359	4.952	35.936	72.363	1.00	22.08	O
ATOM	2772	CB	PHE	A	359	6.073	36.160	69.258	1.00	21.49	C
ATOM	2773	CG	PHE	A	359	5.037	35.034	69.190	1.00	21.75	C
ATOM	2774	CD1	PHE	A	359	3.736	35.294	68.788	1.00	23.31	C
ATOM	2775	CD2	PHE	A	359	5.335	33.766	69.678	1.00	24.13	C
ATOM	2776	CE1	PHE	A	359	2.716	34.309	68.887	1.00	25.43	C
ATOM	2777	CE2	PHE	A	359	4.317	32.762	69.784	1.00	23.18	C
ATOM	2778	CZ	PHE	A	359	3.020	33.043	69.397	1.00	23.30	C
ATOM	2779	N	ASP	A	360	7.160	35.763	72.150	1.00	22.98	N
ATOM	2780	CA	ASP	A	360	7.300	34.898	73.330	1.00	24.34	C
ATOM	2781	C	ASP	A	360	6.737	35.543	74.595	1.00	25.13	C
ATOM	2782	O	ASP	A	360	5.957	34.928	75.324	1.00	25.10	O
ATOM	2783	CB	ASP	A	360	8.762	34.531	73.539	1.00	24.42	C
ATOM	2784	CG	ASP	A	360	8.941	33.450	74.598	1.00	28.65	C
ATOM	2785	OD1	ASP	A	360	8.167	32.460	74.562	1.00	26.11	O
ATOM	2786	OD2	ASP	A	360	9.864	33.585	75.433	1.00	28.60	O
ATOM	2787	N	LEU	A	361	7.110	36.795	74.848	1.00	23.31	N
ATOM	2788	CA	LEU	A	361	6.596	37.530	76.007	1.00	23.16	C
ATOM	2789	C	LEU	A	361	5.081	37.728	75.972	1.00	22.98	C
ATOM	2790	O	LEU	A	361	4.370	37.502	76.971	1.00	22.61	O
ATOM	2791	CB	LEU	A	361	7.249	38.917	76.090	1.00	24.04	C
ATOM	2792	CG	LEU	A	361	6.720	39.828	77.210	1.00	24.50	C
ATOM	2793	CD1	LEU	A	361	6.864	39.127	78.604	1.00	23.04	C



ATOM	2794	CD2	LEU	A	361	7.541	41.128	77.194	1.00	19.72	C
ATOM	2795	N	ALA	A	362	4.579	38.161	74.824	1.00	22.35	N
ATOM	2796	CA	ALA	A	362	3.155	38.412	74.681	1.00	21.48	C
ATOM	2797	C	ALA	A	362	2.317	37.156	74.806	1.00	23.87	C
ATOM	2798	O	ALA	A	362	1.224	37.212	75.367	1.00	24.33	O
ATOM	2799	CB	ALA	A	362	2.864	39.052	73.366	1.00	19.98	C
ATOM	2800	N	TYR	A	363	2.794	36.054	74.231	1.00	23.92	N
ATOM	2801	CA	TYR	A	363	2.036	34.816	74.311	1.00	26.21	C
ATOM	2802	C	TYR	A	363	1.931	34.399	75.796	1.00	26.63	C
ATOM	2803	O	TYR	A	363	0.845	34.048	76.293	1.00	26.40	O
ATOM	2804	CB	TYR	A	363	2.726	33.736	73.481	1.00	28.58	C
ATOM	2805	CG	TYR	A	363	1.932	32.443	73.407	1.00	32.92	C
ATOM	2806	CD1	TYR	A	363	0.895	32.285	72.478	1.00	34.40	C
ATOM	2807	CD2	TYR	A	363	2.183	31.397	74.302	1.00	34.06	C
ATOM	2808	CE1	TYR	A	363	0.128	31.119	72.445	1.00	36.29	C
ATOM	2809	CE2	TYR	A	363	1.421	30.221	74.270	1.00	35.85	C
ATOM	2810	CZ	TYR	A	363	0.401	30.100	73.338	1.00	36.97	C
ATOM	2811	OH	TYR	A	363	-0.334	28.942	73.274	1.00	40.47	O
ATOM	2812	N	GLY	A	364	3.063	34.421	76.491	1.00	25.41	N
ATOM	2813	CA	GLY	A	364	3.080	34.089	77.908	1.00	26.65	C
ATOM	2814	C	GLY	A	364	2.245	35.078	78.715	1.00	26.79	C
ATOM	2815	O	GLY	A	364	1.558	34.668	79.660	1.00	28.57	O
ATOM	2816	N	TYR	A	365	2.301	36.374	78.369	1.00	25.41	N
ATOM	2817	CA	TYR	A	365	1.519	37.421	79.048	1.00	25.22	C
ATOM	2818	C	TYR	A	365	0.022	37.215	78.811	1.00	25.15	C
ATOM	2819	O	TYR	A	365	-0.824	37.448	79.679	1.00	25.84	O
ATOM	2820	CB	TYR	A	365	1.927	38.806	78.510	1.00	24.05	C
ATOM	2821	CG	TYR	A	365	1.201	40.006	79.107	1.00	23.47	C
ATOM	2822	CD1	TYR	A	365	1.503	40.462	80.389	1.00	23.98	C
ATOM	2823	CD2	TYR	A	365	0.292	40.752	78.350	1.00	23.87	C
ATOM	2824	CE1	TYR	A	365	0.937	41.641	80.902	1.00	25.30	C
ATOM	2825	CE2	TYR	A	365	-0.282	41.955	78.860	1.00	23.46	C
ATOM	2826	CZ	TYR	A	365	0.067	42.378	80.146	1.00	23.37	C
ATOM	2827	OH	TYR	A	365	-0.409	43.559	80.656	1.00	24.85	O
ATOM	2828	N	ALA	A	366	-0.307	36.799	77.599	1.00	26.22	N
ATOM	2829	CA	ALA	A	366	-1.689	36.531	77.228	1.00	27.25	C
ATOM	2830	C	ALA	A	366	-2.284	35.402	78.074	1.00	28.94	C
ATOM	2831	O	ALA	A	366	-3.489	35.355	78.313	1.00	28.90	O
ATOM	2832	CB	ALA	A	366	-1.755	36.151	75.757	1.00	27.93	C
ATOM	2833	N	GLN	A	367	-1.438	34.497	78.532	1.00	31.48	N
ATOM	2834	CA	GLN	A	367	-1.942	33.358	79.314	1.00	34.99	C
ATOM	2835	C	GLN	A	367	-1.887	33.573	80.819	1.00	34.74	C
ATOM	2836	O	GLN	A	367	-2.896	33.399	81.529	1.00	35.72	O
ATOM	2837	CB	GLN	A	367	-1.144	32.084	78.973	1.00	35.95	C
ATOM	2838	CG	GLN	A	367	-1.203	31.672	77.504	1.00	41.18	C
ATOM	2839	CD	GLN	A	367	-2.631	31.564	76.992	1.00	43.71	C
ATOM	2840	OE1	GLN	A	367	-3.436	30.821	77.552	1.00	47.31	O
ATOM	2841	NE2	GLN	A	367	-2.954	32.306	75.929	1.00	44.32	N
ATOM	2842	N	ASN	A	368	-0.704	33.969	81.282	1.00	34.32	N
ATOM	2843	CA	ASN	A	368	-0.427	34.147	82.699	1.00	33.75	C
ATOM	2844	C	ASN	A	368	-0.054	35.541	83.227	1.00	32.14	C
ATOM	2845	O	ASN	A	368	0.512	35.646	84.316	1.00	30.93	O
ATOM	2846	CB	ASN	A	368	0.686	33.170	83.083	1.00	36.33	C
ATOM	2847	CG	ASN	A	368	0.385	31.733	82.646	1.00	38.79	C
ATOM	2848	OD1	ASN	A	368	0.643	31.348	81.505	1.00	41.74	O
ATOM	2849	ND2	ASN	A	368	-0.176	30.943	83.553	1.00	40.42	N
ATOM	2850	N	GLN	A	369	-0.373	36.589	82.472	1.00	30.32	N
ATOM	2851	CA	GLN	A	369	-0.058	37.972	82.854	1.00	29.92	C
ATOM	2852	C	GLN	A	369	1.316	38.241	83.492	1.00	26.56	C
ATOM	2853	O	GLN	A	369	2.339	37.947	82.895	1.00	26.14	O
ATOM	2854	CB	GLN	A	369	-1.180	38.534	83.724	1.00	30.77	C
ATOM	2855	CG	GLN	A	369	-2.537	38.484	83.037	1.00	33.44	C
ATOM	2856	CD	GLN	A	369	-3.194	37.100	83.089	1.00	36.23	C
ATOM	2857	OE1	GLN	A	369	-3.156	36.326	82.124	1.00	36.79	O
ATOM	2858	NE2	GLN	A	369	-3.804	36.790	84.224	1.00	34.25	N
ATOM	2859	N	MET	A	370	1.370	38.791	84.701	1.00	26.64	N
ATOM	2860	CA	MET	A	370	2.678	39.111	85.273	1.00	24.13	C
ATOM	2861	C	MET	A	370	3.702	38.004	85.409	1.00	26.77	C
ATOM	2862	O	MET	A	370	4.922	38.276	85.381	1.00	24.63	O
ATOM	2863	CB	MET	A	370	2.513	39.823	86.626	1.00	24.65	C
ATOM	2864	CG	MET	A	370	1.775	41.171	86.513	1.00	20.17	C
ATOM	2865	SD	MET	A	370	2.464	42.296	85.168	1.00	22.99	S
ATOM	2866	CE	MET	A	370	4.242	42.357	85.619	1.00	19.49	C
ATOM	2867	N	SER	A	371	3.252	36.754	85.552	1.00	27.20	N
ATOM	2868	CA	SER	A	371	4.226	35.683	85.701	1.00	27.95	C
ATOM	2869	C	SER	A	371	5.160	35.675	84.506	1.00	27.70	C
ATOM	2870	O	SER	A	371	6.377	35.475	84.647	1.00	27.68	O
ATOM	2871	CB	SER	A	371	3.528	34.311	85.859	1.00	27.92	C
ATOM	2872	OG	SER	A	371	2.847	34.224	87.099	1.00	29.27	O
ATOM	2873	N	ALA	A	372	4.604	35.913	83.320	1.00	27.16	N



ATOM	2874	CA	ALA	A	372	5.420	35.928	82.107	1.00	26.96	C
ATOM	2875	C	ALA	A	372	6.442	37.075	82.102	1.00	27.49	C
ATOM	2876	O	ALA	A	372	7.620	36.886	81.719	1.00	26.52	O
ATOM	2877	CB	ALA	A	372	4.522	36.013	80.867	1.00	24.18	C
ATOM	2878	N	TYR	A	373	6.014	38.261	82.536	1.00	26.36	N
ATOM	2879	CA	TYR	A	373	6.972	39.367	82.555	1.00	26.53	C
ATOM	2880	C	TYR	A	373	8.056	39.151	83.614	1.00	26.45	C
ATOM	2881	O	TYR	A	373	9.235	39.461	83.396	1.00	25.92	O
ATOM	2882	CB	TYR	A	373	6.295	40.718	82.822	1.00	26.34	C
ATOM	2883	CG	TYR	A	373	7.304	41.819	82.555	1.00	25.14	C
ATOM	2884	CD1	TYR	A	373	7.685	42.118	81.246	1.00	25.01	C
ATOM	2885	CD2	TYR	A	373	8.010	42.418	83.601	1.00	25.14	C
ATOM	2886	CE1	TYR	A	373	8.735	42.965	80.979	1.00	24.01	C
ATOM	2887	CE2	TYR	A	373	9.082	43.263	83.355	1.00	24.62	C
ATOM	2888	CZ	TYR	A	373	9.437	43.531	82.035	1.00	26.74	C
ATOM	2889	OH	TYR	A	373	10.504	44.343	81.764	1.00	25.39	O
ATOM	2890	N	VAL	A	374	7.658	38.604	84.765	1.00	26.85	N
ATOM	2891	CA	VAL	A	374	8.603	38.378	85.833	1.00	26.33	C
ATOM	2892	C	VAL	A	374	9.648	37.369	85.407	1.00	26.60	C
ATOM	2893	O	VAL	A	374	10.822	37.469	85.793	1.00	27.21	O
ATOM	2894	CB	VAL	A	374	7.874	37.939	87.112	1.00	27.52	C
ATOM	2895	CG1	VAL	A	374	8.878	37.634	88.220	1.00	26.82	C
ATOM	2896	CG2	VAL	A	374	6.931	39.043	87.534	1.00	25.61	C
ATOM	2897	N	GLU	A	375	9.256	36.416	84.566	1.00	27.80	N
ATOM	2898	CA	GLU	A	375	10.236	35.454	84.083	1.00	29.51	C
ATOM	2899	C	GLU	A	375	11.333	36.198	83.315	1.00	29.11	C
ATOM	2900	O	GLU	A	375	12.525	35.912	83.459	1.00	28.75	O
ATOM	2901	CB	GLU	A	375	9.578	34.428	83.174	1.00	32.52	C
ATOM	2902	CG	GLU	A	375	8.944	33.292	83.936	1.00	37.34	C
ATOM	2903	CD	GLU	A	375	8.234	32.325	83.017	1.00	41.03	C
ATOM	2904	OE1	GLU	A	375	8.846	31.942	81.987	1.00	41.30	O
ATOM	2905	OE2	GLU	A	375	7.077	31.957	83.338	1.00	40.85	O
ATOM	2906	N	LEU	A	376	10.915	37.158	82.488	1.00	28.75	N
ATOM	2907	CA	LEU	A	376	11.861	37.959	81.715	1.00	26.38	C
ATOM	2908	C	LEU	A	376	12.745	38.786	82.655	1.00	24.93	C
ATOM	2909	O	LEU	A	376	13.971	38.770	82.533	1.00	24.20	O
ATOM	2910	CB	LEU	A	376	11.104	38.885	80.723	1.00	25.18	C
ATOM	2911	CG	LEU	A	376	11.953	39.931	79.950	1.00	24.84	C
ATOM	2912	CD1	LEU	A	376	13.049	39.243	79.159	1.00	23.65	C
ATOM	2913	CD2	LEU	A	376	11.078	40.738	79.024	1.00	22.58	C
ATOM	2914	N	GLN	A	377	12.133	39.505	83.598	1.00	26.15	N
ATOM	2915	CA	GLN	A	377	12.936	40.307	84.520	1.00	25.44	C
ATOM	2916	C	GLN	A	377	13.991	39.470	85.260	1.00	26.51	C
ATOM	2917	O	GLN	A	377	15.140	39.906	85.403	1.00	25.57	O
ATOM	2918	CB	GLN	A	377	12.062	41.036	85.526	1.00	25.39	C
ATOM	2919	CG	GLN	A	377	12.816	42.164	86.258	1.00	25.77	C
ATOM	2920	CD	GLN	A	377	11.938	43.015	87.165	1.00	29.29	C
ATOM	2921	OE1	GLN	A	377	11.862	44.245	87.003	1.00	29.74	O
ATOM	2922	NE2	GLN	A	377	11.270	42.378	88.124	1.00	25.89	N
ATOM	2923	N	GLU	A	378	13.628	38.260	85.717	1.00	27.58	N
ATOM	2924	CA	GLU	A	378	14.598	37.426	86.437	1.00	27.59	C
ATOM	2925	C	GLU	A	378	15.716	37.000	85.514	1.00	27.93	C
ATOM	2926	O	GLU	A	378	16.871	36.853	85.930	1.00	27.76	O
ATOM	2927	CB	GLU	A	378	13.905	36.200	87.047	1.00	30.95	C
ATOM	2928	CG	GLU	A	378	12.899	36.555	88.135	1.00	32.26	C
ATOM	2929	CD	GLU	A	378	13.558	37.248	89.322	1.00	34.98	C
ATOM	2930	OE1	GLU	A	378	14.631	36.767	89.765	1.00	35.52	O
ATOM	2931	OE2	GLU	A	378	13.010	38.264	89.812	1.00	33.08	O
ATOM	2932	N	ARG	A	379	15.376	36.826	84.238	1.00	28.98	N
ATOM	2933	CA	ARG	A	379	16.369	36.455	83.238	1.00	28.08	C
ATOM	2934	C	ARG	A	379	17.343	37.605	83.085	1.00	26.30	C
ATOM	2935	O	ARG	A	379	18.551	37.409	82.952	1.00	25.18	O
ATOM	2936	CB	ARG	A	379	15.690	36.176	81.905	1.00	31.11	C
ATOM	2937	CG	ARG	A	379	16.140	34.908	81.273	1.00	34.71	C
ATOM	2938	CD	ARG	A	379	14.950	34.102	80.770	1.00	37.22	C
ATOM	2939	NE	ARG	A	379	14.317	34.751	79.633	1.00	40.19	N
ATOM	2940	CZ	ARG	A	379	13.009	34.822	79.460	1.00	39.96	C
ATOM	2941	NH1	ARG	A	379	12.195	34.285	80.354	1.00	41.21	N
ATOM	2942	NH2	ARG	A	379	12.522	35.420	78.391	1.00	41.43	N
ATOM	2943	N	GLU	A	380	16.818	38.827	83.119	1.00	26.81	N
ATOM	2944	CA	GLU	A	380	17.685	39.981	83.007	1.00	25.54	C
ATOM	2945	C	GLU	A	380	18.605	40.070	84.224	1.00	24.12	C
ATOM	2946	O	GLU	A	380	19.797	40.297	84.075	1.00	24.11	O
ATOM	2947	CB	GLU	A	380	16.859	41.274	82.875	1.00	25.73	C
ATOM	2948	CG	GLU	A	380	16.143	41.400	81.543	1.00	24.87	C
ATOM	2949	CD	GLU	A	380	15.306	42.661	81.484	1.00	25.24	C
ATOM	2950	OE1	GLU	A	380	14.208	42.672	82.076	1.00	23.59	O
ATOM	2951	OE2	GLU	A	380	15.768	43.649	80.869	1.00	24.49	O
ATOM	2952	N	PHE	A	381	18.060	39.906	85.423	1.00	26.16	N
ATOM	2953	CA	PHE	A	381	18.907	39.970	86.622	1.00	27.56	C



ATOM	2954	C	PHE	A	381	19.985	38.884	86.510	1.00	27.45	C
ATOM	2955	O	PHE	A	381	21.142	39.114	86.842	1.00	25.03	O
ATOM	2956	CB	PHE	A	381	18.079	39.765	87.892	1.00	27.68	C
ATOM	2957	CG	PHE	A	381	17.239	40.963	88.287	1.00	28.49	C
ATOM	2958	CD1	PHE	A	381	17.810	42.228	88.404	1.00	29.48	C
ATOM	2959	CD2	PHE	A	381	15.899	40.801	88.615	1.00	27.89	C
ATOM	2960	CE1	PHE	A	381	17.048	43.320	88.852	1.00	29.90	C
ATOM	2961	CE2	PHE	A	381	15.139	41.870	89.058	1.00	28.13	C
ATOM	2962	CZ	PHE	A	381	15.707	43.137	89.180	1.00	28.24	C
ATOM	2963	N	ALA	A	382	19.604	37.713	85.992	1.00	28.81	N
ATOM	2964	CA	ALA	A	382	20.561	36.622	85.842	1.00	30.02	C
ATOM	2965	C	ALA	A	382	21.677	36.967	84.866	1.00	32.20	C
ATOM	2966	O	ALA	A	382	22.842	36.625	85.085	1.00	31.62	O
ATOM	2967	CB	ALA	A	382	19.841	35.368	85.384	1.00	32.52	C
ATOM	2968	N	ALA	A	383	21.326	37.671	83.791	1.00	32.50	N
ATOM	2969	CA	ALA	A	383	22.307	38.032	82.783	1.00	32.93	C
ATOM	2970	C	ALA	A	383	23.330	39.082	83.227	1.00	33.79	C
ATOM	2971	O	ALA	A	383	24.331	39.312	82.534	1.00	33.23	O
ATOM	2972	CB	ALA	A	383	21.587	38.490	81.515	1.00	32.26	C
ATOM	2973	N	GLU	A	384	23.100	39.718	84.375	1.00	35.38	N
ATOM	2974	CA	GLU	A	384	24.041	40.730	84.841	1.00	37.16	C
ATOM	2975	C	GLU	A	384	25.425	40.126	85.083	1.00	37.70	C
ATOM	2976	O	GLU	A	384	26.440	40.814	84.993	1.00	36.99	O
ATOM	2977	CB	GLU	A	384	23.523	41.394	86.117	1.00	38.26	C
ATOM	2978	CG	GLU	A	384	22.105	41.909	85.990	1.00	40.83	C
ATOM	2979	CD	GLU	A	384	21.699	42.778	87.165	1.00	43.17	C
ATOM	2980	OE1	GLU	A	384	22.150	42.492	88.302	1.00	45.58	O
ATOM	2981	OE2	GLU	A	384	20.925	43.738	86.956	1.00	44.09	O
ATOM	2982	N	GLU	A	385	25.471	38.831	85.386	1.00	40.00	N
ATOM	2983	CA	GLU	A	385	26.754	38.172	85.602	1.00	41.93	C
ATOM	2984	C	GLU	A	385	27.515	38.198	84.290	1.00	41.84	C
ATOM	2985	O	GLU	A	385	28.753	38.232	84.277	1.00	40.43	O
ATOM	2986	CB	GLU	A	385	26.555	36.724	86.014	1.00	44.98	C
ATOM	2987	CG	GLU	A	385	25.894	36.544	87.350	1.00	49.05	C
ATOM	2988	CD	GLU	A	385	25.472	35.107	87.576	1.00	52.23	C
ATOM	2989	OE1	GLU	A	385	24.440	34.690	86.994	1.00	53.71	O
ATOM	2990	OE2	GLU	A	385	26.185	34.391	88.322	1.00	53.83	O
ATOM	2991	N	ARG	A	386	26.762	38.181	83.186	1.00	40.41	N
ATOM	2992	CA	ARG	A	386	27.353	38.187	81.846	1.00	39.65	C
ATOM	2993	C	ARG	A	386	27.701	39.585	81.367	1.00	38.54	C
ATOM	2994	O	ARG	A	386	28.283	39.748	80.288	1.00	37.65	O
ATOM	2995	CB	ARG	A	386	26.409	37.511	80.837	1.00	40.18	C
ATOM	2996	CG	ARG	A	386	26.362	35.983	80.952	1.00	41.78	C
ATOM	2997	CD	ARG	A	386	25.548	35.342	79.833	1.00	42.23	C
ATOM	2998	NE	ARG	A	386	24.099	35.416	80.056	1.00	44.65	N
ATOM	2999	CZ	ARG	A	386	23.201	35.470	79.071	1.00	45.67	C
ATOM	3000	NH1	ARG	A	386	23.608	35.460	77.807	1.00	45.89	N
ATOM	3001	NH2	ARG	A	386	21.899	35.542	79.336	1.00	45.00	N
ATOM	3002	N	GLY	A	387	27.324	40.589	82.163	1.00	36.70	N
ATOM	3003	CA	GLY	A	387	27.624	41.967	81.820	1.00	33.94	C
ATOM	3004	C	GLY	A	387	26.433	42.813	81.405	1.00	31.22	C
ATOM	3005	O	GLY	A	387	26.599	43.993	81.116	1.00	31.33	O
ATOM	3006	N	TYR	A	388	25.247	42.215	81.397	1.00	29.84	N
ATOM	3007	CA	TYR	A	388	24.020	42.901	81.021	1.00	28.60	C
ATOM	3008	C	TYR	A	388	23.737	43.993	82.042	1.00	28.17	C
ATOM	3009	O	TYR	A	388	23.882	43.780	83.263	1.00	26.51	O
ATOM	3010	CB	TYR	A	388	22.851	41.926	81.003	1.00	28.11	C
ATOM	3011	CG	TYR	A	388	21.540	42.512	80.505	1.00	27.96	C
ATOM	3012	CD1	TYR	A	388	21.409	42.982	79.191	1.00	27.67	C
ATOM	3013	CD2	TYR	A	388	20.407	42.521	81.327	1.00	27.30	C
ATOM	3014	CE1	TYR	A	388	20.176	43.430	78.712	1.00	25.94	C
ATOM	3015	CE2	TYR	A	388	19.169	42.973	80.870	1.00	25.73	C
ATOM	3016	CZ	TYR	A	388	19.060	43.417	79.559	1.00	26.05	C
ATOM	3017	OH	TYR	A	388	17.824	43.800	79.106	1.00	21.46	O
ATOM	3018	N	THR	A	389	23.322	45.155	81.549	1.00	25.41	N
ATOM	3019	CA	THR	A	389	23.048	46.292	82.431	1.00	24.74	C
ATOM	3020	C	THR	A	389	21.657	46.923	82.298	1.00	24.21	C
ATOM	3021	O	THR	A	389	21.297	47.730	83.139	1.00	23.67	O
ATOM	3022	CB	THR	A	389	24.101	47.426	82.216	1.00	25.59	C
ATOM	3023	OG1	THR	A	389	24.032	47.916	80.856	1.00	27.04	O
ATOM	3024	CG2	THR	A	389	25.508	46.899	82.476	1.00	24.02	C
ATOM	3025	N	ALA	A	390	20.875	46.532	81.290	1.00	23.19	N
ATOM	3026	CA	ALA	A	390	19.555	47.139	81.033	1.00	22.43	C
ATOM	3027	C	ALA	A	390	18.408	46.928	81.999	1.00	21.85	C
ATOM	3028	O	ALA	A	390	17.361	47.582	81.882	1.00	21.59	O
ATOM	3029	CB	ALA	A	390	19.078	46.808	79.595	1.00	21.12	C
ATOM	3030	N	THR	A	391	18.560	46.011	82.947	1.00	20.59	N
ATOM	3031	CA	THR	A	391	17.501	45.806	83.942	1.00	21.96	C
ATOM	3032	C	THR	A	391	17.236	47.173	84.626	1.00	21.61	C
ATOM	3033	O	THR	A	391	16.095	47.530	84.912	1.00	21.93	O



ATOM	3034	CB	THR	A	391	17.960	44.779	84.967	1.00	22.01	C
ATOM	3035	OG1	THR	A	391	18.907	43.894	84.324	1.00	20.92	O
ATOM	3036	CG2	THR	A	391	16.768	43.979	85.440	1.00	23.59	C
ATOM	3037	N	LYS	A	392	18.320	47.894	84.892	1.00	20.96	N
ATOM	3038	CA	LYS	A	392	18.260	49.250	85.466	1.00	21.82	C
ATOM	3039	C	LYS	A	392	18.112	50.131	84.257	1.00	19.61	C
ATOM	3040	O	LYS	A	392	19.061	50.744	83.777	1.00	20.31	O
ATOM	3041	CB	LYS	A	392	19.547	49.606	86.207	1.00	22.01	C
ATOM	3042	CG	LYS	A	392	19.620	48.918	87.564	1.00	27.72	C
ATOM	3043	CD	LYS	A	392	21.057	48.800	88.038	1.00	32.07	C
ATOM	3044	CE	LYS	A	392	21.276	49.606	89.277	1.00	33.90	C
ATOM	3045	NZ	LYS	A	392	21.315	51.061	89.004	1.00	38.63	N
ATOM	3046	N	HIS	A	393	16.892	50.194	83.774	1.00	18.17	N
ATOM	3047	CA	HIS	A	393	16.639	50.948	82.553	1.00	20.04	C
ATOM	3048	C	HIS	A	393	16.782	52.489	82.645	1.00	19.20	C
ATOM	3049	O	HIS	A	393	17.044	53.141	81.624	1.00	19.66	O
ATOM	3050	CB	HIS	A	393	15.266	50.563	82.032	1.00	17.52	C
ATOM	3051	CG	HIS	A	393	14.181	50.692	83.050	1.00	20.97	C
ATOM	3052	ND1	HIS	A	393	13.368	49.636	83.409	1.00	22.37	N
ATOM	3053	CD2	HIS	A	393	13.745	51.759	83.761	1.00	21.90	C
ATOM	3054	CE1	HIS	A	393	12.479	50.046	84.295	1.00	21.29	C
ATOM	3055	NE2	HIS	A	393	12.686	51.330	84.528	1.00	21.15	N
ATOM	3056	N	GLN	A	394	16.658	53.069	83.840	1.00	17.03	N
ATOM	3057	CA	GLN	A	394	16.774	54.537	83.932	1.00	17.78	C
ATOM	3058	C	GLN	A	394	18.191	54.984	83.620	1.00	18.50	C
ATOM	3059	O	GLN	A	394	18.405	55.800	82.730	1.00	17.42	O
ATOM	3060	CB	GLN	A	394	16.338	55.051	85.313	1.00	16.97	C
ATOM	3061	CG	GLN	A	394	15.009	54.504	85.774	1.00	20.10	C
ATOM	3062	CD	GLN	A	394	13.791	55.077	85.048	1.00	18.99	C
ATOM	3063	OE1	GLN	A	394	13.885	55.621	83.941	1.00	17.79	O
ATOM	3064	NE2	GLN	A	394	12.629	54.924	85.668	1.00	19.68	N
ATOM	3065	N	ARG	A	395	19.181	54.427	84.326	1.00	18.27	N
ATOM	3066	CA	ARG	A	395	20.546	54.785	84.015	1.00	18.42	C
ATOM	3067	C	ARG	A	395	20.899	54.351	82.588	1.00	16.21	C
ATOM	3068	O	ARG	A	395	21.655	55.028	81.944	1.00	17.55	O
ATOM	3069	CB	ARG	A	395	21.538	54.133	84.993	1.00	19.46	C
ATOM	3070	CG	ARG	A	395	21.285	52.642	85.194	1.00	21.93	C
ATOM	3071	CD	ARG	A	395	22.588	51.908	85.484	1.00	22.02	C
ATOM	3072	NE	ARG	A	395	23.546	52.050	84.385	1.00	23.84	N
ATOM	3073	CZ	ARG	A	395	23.379	51.498	83.185	1.00	23.09	C
ATOM	3074	NH1	ARG	A	395	22.288	50.779	82.938	1.00	21.28	N
ATOM	3075	NH2	ARG	A	395	24.305	51.644	82.251	1.00	21.76	N
ATOM	3076	N	GLU	A	396	20.319	53.250	82.102	1.00	16.56	N
ATOM	3077	CA	GLU	A	396	20.616	52.715	80.750	1.00	17.11	C
ATOM	3078	C	GLU	A	396	20.312	53.746	79.640	1.00	16.88	C
ATOM	3079	O	GLU	A	396	21.048	53.855	78.641	1.00	17.91	O
ATOM	3080	CB	GLU	A	396	19.802	51.434	80.502	1.00	15.77	C
ATOM	3081	CG	GLU	A	396	20.127	50.667	79.173	1.00	18.83	C
ATOM	3082	CD	GLU	A	396	21.466	49.905	79.198	1.00	23.28	C
ATOM	3083	OE1	GLU	A	396	22.019	49.672	80.307	1.00	22.03	O
ATOM	3084	OE2	GLU	A	396	21.959	49.517	78.104	1.00	24.02	O
ATOM	3085	N	VAL	A	397	19.239	54.508	79.824	1.00	13.85	N
ATOM	3086	CA	VAL	A	397	18.860	55.489	78.832	1.00	16.25	C
ATOM	3087	C	VAL	A	397	19.420	56.894	79.144	1.00	16.64	C
ATOM	3088	O	VAL	A	397	19.143	57.865	78.438	1.00	15.83	O
ATOM	3089	CB	VAL	A	397	17.302	55.467	78.668	1.00	17.31	C
ATOM	3090	CG1	VAL	A	397	16.591	55.852	79.939	1.00	14.02	C
ATOM	3091	CG2	VAL	A	397	16.909	56.328	77.554	1.00	24.63	C
ATOM	3092	N	GLY	A	398	20.238	56.998	80.195	1.00	16.05	N
ATOM	3093	CA	GLY	A	398	20.813	58.292	80.494	1.00	14.40	C
ATOM	3094	C	GLY	A	398	20.252	59.132	81.617	1.00	15.76	C
ATOM	3095	O	GLY	A	398	20.598	60.316	81.688	1.00	15.69	O
ATOM	3096	N	ALA	A	399	19.423	58.574	82.497	1.00	15.24	N
ATOM	3097	CA	ALA	A	399	18.887	59.385	83.614	1.00	16.45	C
ATOM	3098	C	ALA	A	399	20.028	59.990	84.455	1.00	18.10	C
ATOM	3099	O	ALA	A	399	19.955	61.145	84.865	1.00	16.80	O
ATOM	3100	CB	ALA	A	399	18.013	58.540	84.499	1.00	17.28	C
ATOM	3101	N	GLY	A	400	21.064	59.201	84.724	1.00	17.74	N
ATOM	3102	CA	GLY	A	400	22.191	59.729	85.493	1.00	18.49	C
ATOM	3103	C	GLY	A	400	22.974	60.751	84.703	1.00	17.74	C
ATOM	3104	O	GLY	A	400	23.532	61.732	85.243	1.00	16.99	O
ATOM	3105	N	TYR	A	401	23.072	60.529	83.400	1.00	17.24	N
ATOM	3106	CA	TYR	A	401	23.788	61.479	82.596	1.00	15.16	C
ATOM	3107	C	TYR	A	401	23.053	62.834	82.558	1.00	16.71	C
ATOM	3108	O	TYR	A	401	23.690	63.900	82.707	1.00	14.01	O
ATOM	3109	CB	TYR	A	401	23.956	60.947	81.176	1.00	17.70	C
ATOM	3110	CG	TYR	A	401	24.730	61.877	80.291	1.00	15.52	C
ATOM	3111	CD1	TYR	A	401	26.118	62.021	80.425	1.00	14.95	C
ATOM	3112	CD2	TYR	A	401	24.084	62.629	79.313	1.00	14.26	C
ATOM	3113	CE1	TYR	A	401	26.821	62.870	79.599	1.00	13.77	C



ATOM	3114	CE2	TYR	A	401	24.792	63.507	78.473	1.00	16.83	C
ATOM	3115	CZ	TYR	A	401	26.171	63.615	78.621	1.00	17.28	C
ATOM	3116	OH	TYR	A	401	26.860	64.466	77.770	1.00	18.51	O
ATOM	3117	N	PHE	A	402	21.732	62.840	82.334	1.00	14.85	N
ATOM	3118	CA	PHE	A	402	21.075	64.133	82.313	1.00	14.77	C
ATOM	3119	C	PHE	A	402	21.027	64.735	83.708	1.00	15.88	C
ATOM	3120	O	PHE	A	402	20.844	65.960	83.863	1.00	14.84	O
ATOM	3121	CB	PHE	A	402	19.694	64.073	81.662	1.00	15.27	C
ATOM	3122	CG	PHE	A	402	19.765	64.057	80.163	1.00	14.57	C
ATOM	3123	CD1	PHE	A	402	20.084	62.887	79.467	1.00	13.95	C
ATOM	3124	CD2	PHE	A	402	19.661	65.236	79.452	1.00	16.12	C
ATOM	3125	CE1	PHE	A	402	20.311	62.922	78.061	1.00	13.25	C
ATOM	3126	CE2	PHE	A	402	19.874	65.276	78.064	1.00	15.46	C
ATOM	3127	CZ	PHE	A	402	20.209	64.090	77.373	1.00	14.93	C
ATOM	3128	N	ASP	A	403	21.195	63.882	84.722	1.00	15.59	N
ATOM	3129	CA	ASP	A	403	21.233	64.390	86.088	1.00	16.92	C
ATOM	3130	C	ASP	A	403	22.535	65.193	86.251	1.00	17.60	C
ATOM	3131	O	ASP	A	403	22.563	66.227	86.902	1.00	15.63	O
ATOM	3132	CB	ASP	A	403	21.209	63.249	87.118	1.00	16.32	C
ATOM	3133	CG	ASP	A	403	19.790	62.929	87.590	1.00	19.16	C
ATOM	3134	OD1	ASP	A	403	18.840	63.581	87.088	1.00	18.82	O
ATOM	3135	OD2	ASP	A	403	19.619	62.059	88.474	1.00	19.61	O
ATOM	3136	N	ARG	A	404	23.610	64.688	85.672	1.00	17.30	N
ATOM	3137	CA	ARG	A	404	24.880	65.374	85.755	1.00	18.49	C
ATOM	3138	C	ARG	A	404	24.769	66.691	84.991	1.00	17.29	C
ATOM	3139	O	ARG	A	404	25.255	67.735	85.425	1.00	17.41	O
ATOM	3140	CB	ARG	A	404	25.990	64.482	85.178	1.00	21.09	C
ATOM	3141	CG	ARG	A	404	27.368	65.067	85.366	1.00	25.75	C
ATOM	3142	CD	ARG	A	404	27.689	65.035	86.874	1.00	31.87	C
ATOM	3143	NE	ARG	A	404	28.537	63.887	87.154	1.00	37.69	N
ATOM	3144	CZ	ARG	A	404	29.831	63.866	86.852	1.00	38.98	C
ATOM	3145	NH1	ARG	A	404	30.391	64.927	86.292	1.00	40.03	N
ATOM	3146	NH2	ARG	A	404	30.552	62.786	87.074	1.00	41.30	N
ATOM	3147	N	ILE	A	405	24.113	66.675	83.843	1.00	15.28	N
ATOM	3148	CA	ILE	A	405	23.968	67.933	83.130	1.00	15.72	C
ATOM	3149	C	ILE	A	405	23.164	68.917	84.013	1.00	15.77	C
ATOM	3150	O	ILE	A	405	23.533	70.077	84.191	1.00	14.94	O
ATOM	3151	CB	ILE	A	405	23.203	67.754	81.807	1.00	15.44	C
ATOM	3152	CG1	ILE	A	405	24.029	66.937	80.834	1.00	13.43	C
ATOM	3153	CG2	ILE	A	405	22.844	69.139	81.232	1.00	14.93	C
ATOM	3154	CD1	ILE	A	405	23.317	66.717	79.539	1.00	16.24	C
ATOM	3155	N	ALA	A	406	22.060	68.436	84.571	1.00	14.26	N
ATOM	3156	CA	ALA	A	406	21.219	69.303	85.387	1.00	15.37	C
ATOM	3157	C	ALA	A	406	21.982	69.921	86.581	1.00	16.79	C
ATOM	3158	O	ALA	A	406	21.823	71.126	86.861	1.00	17.81	O
ATOM	3159	CB	ALA	A	406	19.986	68.540	85.891	1.00	16.31	C
ATOM	3160	N	THR	A	407	22.832	69.116	87.226	1.00	17.15	N
ATOM	3161	CA	THR	A	407	23.607	69.615	88.373	1.00	18.90	C
ATOM	3162	C	THR	A	407	24.830	70.418	87.999	1.00	20.27	C
ATOM	3163	O	THR	A	407	25.443	71.042	88.872	1.00	21.21	O
ATOM	3164	CB	THR	A	407	24.018	68.498	89.381	1.00	19.37	C
ATOM	3165	OG1	THR	A	407	24.816	67.488	88.730	1.00	19.05	O
ATOM	3166	CG2	THR	A	407	22.772	67.897	90.010	1.00	18.37	C
ATOM	3167	N	THR	A	408	25.197	70.411	86.717	1.00	20.00	N
ATOM	3168	CA	THR	A	408	26.309	71.245	86.272	1.00	18.55	C
ATOM	3169	C	THR	A	408	25.692	72.636	86.031	1.00	20.36	C
ATOM	3170	O	THR	A	408	26.288	73.668	86.356	1.00	19.32	O
ATOM	3171	CB	THR	A	408	26.951	70.675	84.998	1.00	17.08	C
ATOM	3172	OG1	THR	A	408	27.463	69.368	85.294	1.00	18.17	O
ATOM	3173	CG2	THR	A	408	28.097	71.577	84.498	1.00	17.41	C
ATOM	3174	N	VAL	A	409	24.488	72.680	85.470	1.00	18.24	N
ATOM	3175	CA	VAL	A	409	23.808	73.964	85.249	1.00	19.48	C
ATOM	3176	C	VAL	A	409	23.432	74.599	86.600	1.00	19.47	C
ATOM	3177	O	VAL	A	409	23.647	75.809	86.814	1.00	19.31	O
ATOM	3178	CB	VAL	A	409	22.562	73.779	84.384	1.00	20.24	C
ATOM	3179	CG1	VAL	A	409	21.676	75.039	84.417	1.00	21.31	C
ATOM	3180	CG2	VAL	A	409	22.990	73.484	82.956	1.00	21.74	C
ATOM	3181	N	ASP	A	410	22.901	73.793	87.513	1.00	20.37	N
ATOM	3182	CA	ASP	A	410	22.519	74.271	88.864	1.00	22.03	C
ATOM	3183	C	ASP	A	410	22.690	73.124	89.834	1.00	22.44	C
ATOM	3184	O	ASP	A	410	21.775	72.326	90.016	1.00	19.60	O
ATOM	3185	CB	ASP	A	410	21.061	74.711	88.912	1.00	22.73	C
ATOM	3186	CG	ASP	A	410	20.634	75.188	90.317	1.00	22.88	C
ATOM	3187	OD1	ASP	A	410	21.333	74.941	91.318	1.00	27.99	O
ATOM	3188	OD2	ASP	A	410	19.582	75.805	90.430	1.00	26.69	O
ATOM	3189	N	PRO	A	411	23.856	73.039	90.502	1.00	22.49	N
ATOM	3190	CA	PRO	A	411	24.046	71.929	91.434	1.00	25.04	C
ATOM	3191	C	PRO	A	411	22.959	71.714	92.491	1.00	25.05	C
ATOM	3192	O	PRO	A	411	22.824	70.609	93.016	1.00	25.32	O
ATOM	3193	CB	PRO	A	411	25.432	72.194	92.049	1.00	25.96	C



ATOM	3194	CG	PRO	A	411	25.728	73.631	91.714	1.00	27.31	C
ATOM	3195	CD	PRO	A	411	25.056	73.895	90.409	1.00	25.46	C
ATOM	3196	N	ASN	A	412	22.177	72.740	92.791	1.00	23.95	N
ATOM	3197	CA	ASN	A	412	21.157	72.560	93.804	1.00	24.51	C
ATOM	3198	C	ASN	A	412	19.758	72.372	93.281	1.00	25.06	C
ATOM	3199	O	ASN	A	412	18.787	72.520	94.026	1.00	23.48	O
ATOM	3200	CB	ASN	A	412	21.207	73.698	94.818	1.00	25.96	C
ATOM	3201	CG	ASN	A	412	22.528	73.727	95.561	1.00	26.83	C
ATOM	3202	OD1	ASN	A	412	22.951	72.713	96.126	1.00	27.03	O
ATOM	3203	ND2	ASN	A	412	23.202	74.866	95.532	1.00	28.11	N
ATOM	3204	N	SER	A	413	19.661	72.024	92.003	1.00	23.05	N
ATOM	3205	CA	SER	A	413	18.366	71.789	91.385	1.00	23.33	C
ATOM	3206	C	SER	A	413	17.521	70.837	92.249	1.00	22.67	C
ATOM	3207	O	SER	A	413	18.025	69.825	92.731	1.00	21.46	O
ATOM	3208	CB	SER	A	413	18.556	71.164	90.005	1.00	22.07	C
ATOM	3209	OG	SER	A	413	17.319	70.706	89.523	1.00	23.14	O
ATOM	3210	N	SER	A	414	16.231	71.138	92.427	1.00	22.42	N
ATOM	3211	CA	SER	A	414	15.411	70.239	93.250	1.00	21.66	C
ATOM	3212	C	SER	A	414	14.617	69.246	92.404	1.00	22.04	C
ATOM	3213	O	SER	A	414	13.769	68.528	92.915	1.00	21.23	O
ATOM	3214	CB	SER	A	414	14.470	71.055	94.134	1.00	23.93	C
ATOM	3215	OG	SER	A	414	13.646	71.873	93.354	1.00	26.70	O
ATOM	3216	N	THR	A	415	14.943	69.175	91.118	1.00	21.11	N
ATOM	3217	CA	THR	A	415	14.233	68.303	90.212	1.00	21.54	C
ATOM	3218	C	THR	A	415	15.079	67.314	89.449	1.00	21.66	C
ATOM	3219	O	THR	A	415	14.768	67.004	88.282	1.00	23.30	O
ATOM	3220	CB	THR	A	415	13.408	69.111	89.179	1.00	22.80	C
ATOM	3221	OG1	THR	A	415	14.280	69.933	88.403	1.00	22.13	O
ATOM	3222	CG2	THR	A	415	12.356	70.000	89.874	1.00	23.24	C
ATOM	3223	N	THR	A	416	16.149	66.816	90.064	1.00	21.59	N
ATOM	3224	CA	THR	A	416	16.950	65.810	89.391	1.00	21.03	C
ATOM	3225	C	THR	A	416	16.166	64.502	89.484	1.00	22.33	C
ATOM	3226	O	THR	A	416	15.270	64.378	90.303	1.00	22.21	O
ATOM	3227	CB	THR	A	416	18.358	65.677	89.998	1.00	21.69	C
ATOM	3228	OG1	THR	A	416	18.291	65.262	91.363	1.00	21.52	O
ATOM	3229	CG2	THR	A	416	19.058	67.025	89.897	1.00	20.81	C
ATOM	3230	N	ALA	A	417	16.537	63.512	88.678	1.00	22.24	N
ATOM	3231	CA	ALA	A	417	15.741	62.311	88.610	1.00	22.34	C
ATOM	3232	C	ALA	A	417	16.090	60.997	89.308	1.00	23.79	C
ATOM	3233	O	ALA	A	417	15.174	60.258	89.684	1.00	23.54	O
ATOM	3234	CB	ALA	A	417	15.484	62.027	87.174	1.00	23.24	C
ATOM	3235	N	LEU	A	418	17.363	60.659	89.451	1.00	24.32	N
ATOM	3236	CA	LEU	A	418	17.665	59.361	90.078	1.00	23.45	C
ATOM	3237	C	LEU	A	418	17.449	59.339	91.605	1.00	24.94	C
ATOM	3238	O	LEU	A	418	17.005	58.314	92.161	1.00	24.44	O
ATOM	3239	CB	LEU	A	418	19.082	58.891	89.706	1.00	23.54	C
ATOM	3240	CG	LEU	A	418	19.294	58.416	88.260	1.00	23.25	C
ATOM	3241	CD1	LEU	A	418	20.723	57.932	88.076	1.00	24.79	C
ATOM	3242	CD2	LEU	A	418	18.311	57.281	87.939	1.00	22.76	C
ATOM	3243	N	THR	A	419	17.729	60.449	92.288	1.00	25.00	N
ATOM	3244	CA	THR	A	419	17.540	60.493	93.747	1.00	27.33	C
ATOM	3245	C	THR	A	419	16.057	60.273	94.054	1.00	26.89	C
ATOM	3246	O	THR	A	419	15.203	61.025	93.594	1.00	24.48	O
ATOM	3247	CB	THR	A	419	18.014	61.864	94.321	1.00	28.46	C
ATOM	3248	OG1	THR	A	419	19.408	62.014	94.051	1.00	28.55	O
ATOM	3249	CG2	THR	A	419	17.802	61.963	95.821	1.00	28.44	C
ATOM	3250	N	GLY	A	420	15.751	59.224	94.814	1.00	27.00	N
ATOM	3251	CA	GLY	A	420	14.358	58.959	95.137	1.00	26.86	C
ATOM	3252	C	GLY	A	420	13.605	58.151	94.093	1.00	26.38	C
ATOM	3253	O	GLY	A	420	12.375	58.003	94.171	1.00	25.87	O
ATOM	3254	N	SER	A	421	14.323	57.645	93.095	1.00	25.25	N
ATOM	3255	CA	SER	A	421	13.683	56.826	92.052	1.00	25.04	C
ATOM	3256	C	SER	A	421	13.534	55.383	92.555	1.00	25.37	C
ATOM	3257	O	SER	A	421	14.274	54.962	93.438	1.00	23.14	O
ATOM	3258	CB	SER	A	421	14.549	56.797	90.791	1.00	24.54	C
ATOM	3259	OG	SER	A	421	15.828	56.210	91.050	1.00	23.69	O
ATOM	3260	N	THR	A	422	12.593	54.631	91.991	1.00	25.60	N
ATOM	3261	CA	THR	A	422	12.438	53.239	92.397	1.00	25.42	C
ATOM	3262	C	THR	A	422	13.657	52.433	91.950	1.00	26.29	C
ATOM	3263	O	THR	A	422	13.960	51.354	92.491	1.00	25.25	O
ATOM	3264	CB	THR	A	422	11.180	52.619	91.797	1.00	25.39	C
ATOM	3265	OG1	THR	A	422	11.269	52.624	90.365	1.00	24.71	O
ATOM	3266	CG2	THR	A	422	9.960	53.396	92.241	1.00	24.94	C
ATOM	3267	N	GLU	A	423	14.360	52.940	90.950	1.00	24.56	N
ATOM	3268	CA	GLU	A	423	15.527	52.223	90.502	1.00	26.48	C
ATOM	3269	C	GLU	A	423	16.544	52.241	91.640	1.00	28.90	C
ATOM	3270	O	GLU	A	423	17.202	51.250	91.911	1.00	28.88	O
ATOM	3271	CB	GLU	A	423	16.116	52.858	89.240	1.00	24.37	C
ATOM	3272	CG	GLU	A	423	17.394	52.175	88.748	1.00	21.15	C
ATOM	3273	CD	GLU	A	423	17.714	52.540	87.320	1.00	22.21	C



ATOM	3274	OE1	GLU	A	423	17.002	52.037	86.408	1.00	20.19	O
ATOM	3275	OE2	GLU	A	423	18.670	53.343	87.113	1.00	17.32	O
ATOM	3276	N	GLU	A	424	16.660	53.379	92.302	1.00	30.57	N
ATOM	3277	CA	GLU	A	424	17.599	53.536	93.413	1.00	33.10	C
ATOM	3278	C	GLU	A	424	17.212	52.688	94.594	1.00	32.38	C
ATOM	3279	O	GLU	A	424	18.054	52.110	95.269	1.00	31.78	O
ATOM	3280	CB	GLU	A	424	17.578	54.962	93.948	1.00	36.64	C
ATOM	3281	CG	GLU	A	424	18.103	55.985	93.024	1.00	44.01	C
ATOM	3282	CD	GLU	A	424	19.594	56.028	93.016	1.00	47.23	C
ATOM	3283	OE1	GLU	A	424	20.189	56.573	93.983	1.00	50.65	O
ATOM	3284	OE2	GLU	A	424	20.167	55.507	92.033	1.00	50.40	O
ATOM	3285	N	GLY	A	425	15.924	52.682	94.870	1.00	31.80	N
ATOM	3286	CA	GLY	A	425	15.448	51.972	96.030	1.00	33.31	C
ATOM	3287	C	GLY	A	425	15.165	50.505	95.855	1.00	33.50	C
ATOM	3288	O	GLY	A	425	14.968	49.807	96.853	1.00	31.87	O
ATOM	3289	N	GLN	A	426	15.167	50.025	94.611	1.00	32.65	N
ATOM	3290	CA	GLN	A	426	14.836	48.636	94.367	1.00	31.98	C
ATOM	3291	C	GLN	A	426	15.795	47.746	93.567	1.00	32.21	C
ATOM	3292	O	GLN	A	426	15.558	46.531	93.499	1.00	33.16	O
ATOM	3293	CB	GLN	A	426	13.449	48.582	93.745	1.00	29.95	C
ATOM	3294	CG	GLN	A	426	12.421	49.282	94.601	1.00	29.27	C
ATOM	3295	CD	GLN	A	426	11.025	49.184	94.036	1.00	28.83	C
ATOM	3296	OE1	GLN	A	426	10.670	48.191	93.377	1.00	25.51	O
ATOM	3297	NE2	GLN	A	426	10.203	50.202	94.311	1.00	26.09	N
ATOM	3298	N	PHE	A	427	16.851	48.312	92.975	1.00	30.23	N
ATOM	3299	CA	PHE	A	427	17.806	47.519	92.180	1.00	32.20	C
ATOM	3300	C	PHE	A	427	19.238	47.578	92.738	1.00	34.17	C
ATOM	3301	O	PHE	A	427	20.010	46.613	92.537	1.00	37.52	O
ATOM	3302	CB	PHE	A	427	17.791	47.970	90.695	1.00	29.13	C
ATOM	3303	CG	PHE	A	427	16.451	47.768	90.005	1.00	26.93	C
ATOM	3304	CD1	PHE	A	427	15.317	48.449	90.443	1.00	25.02	C
ATOM	3305	CD2	PHE	A	427	16.314	46.853	88.960	1.00	24.41	C
ATOM	3306	CE1	PHE	A	427	14.064	48.214	89.861	1.00	24.42	C
ATOM	3307	CE2	PHE	A	427	15.063	46.615	88.377	1.00	23.03	C
ATOM	3308	CZ	PHE	A	427	13.949	47.285	88.822	1.00	24.51	C
TER	3309		PHE	A	427						
ATOM	3310	N	ALA	B	1	-16.761	73.904	45.544	1.00	50.60	N
ATOM	3311	CA	ALA	B	1	-17.484	73.461	46.769	1.00	49.80	C
ATOM	3312	C	ALA	B	1	-18.006	72.043	46.599	1.00	49.22	C
ATOM	3313	O	ALA	B	1	-18.308	71.598	45.491	1.00	49.67	O
ATOM	3314	CB	ALA	B	1	-18.635	74.401	47.076	1.00	50.19	C
ATOM	3315	N	SER	B	2	-18.138	71.356	47.724	1.00	47.14	N
ATOM	3316	CA	SER	B	2	-18.573	69.969	47.754	1.00	45.05	C
ATOM	3317	C	SER	B	2	-19.221	69.754	49.116	1.00	42.95	C
ATOM	3318	O	SER	B	2	-19.210	70.647	49.962	1.00	43.23	O
ATOM	3319	CB	SER	B	2	-17.324	69.074	47.587	1.00	44.67	C
ATOM	3320	OG	SER	B	2	-17.549	67.731	47.960	1.00	43.14	O
ATOM	3321	N	VAL	B	3	-19.794	68.587	49.344	1.00	40.00	N
ATOM	3322	CA	VAL	B	3	-20.373	68.356	50.645	1.00	38.16	C
ATOM	3323	C	VAL	B	3	-19.578	67.272	51.391	1.00	36.18	C
ATOM	3324	O	VAL	B	3	-19.880	66.942	52.532	1.00	35.87	O
ATOM	3325	CB	VAL	B	3	-21.874	68.012	50.526	1.00	38.43	C
ATOM	3326	CG1	VAL	B	3	-22.584	69.136	49.819	1.00	39.48	C
ATOM	3327	CG2	VAL	B	3	-22.078	66.745	49.763	1.00	38.88	C
ATOM	3328	N	VAL	B	4	-18.547	66.723	50.751	1.00	33.94	N
ATOM	3329	CA	VAL	B	4	-17.730	65.707	51.420	1.00	30.78	C
ATOM	3330	C	VAL	B	4	-17.141	66.385	52.649	1.00	28.72	C
ATOM	3331	O	VAL	B	4	-16.691	67.506	52.556	1.00	26.21	O
ATOM	3332	CB	VAL	B	4	-16.582	65.209	50.501	1.00	30.57	C
ATOM	3333	CG1	VAL	B	4	-15.604	64.361	51.282	1.00	29.28	C
ATOM	3334	CG2	VAL	B	4	-17.158	64.379	49.368	1.00	30.10	C
ATOM	3335	N	GLY	B	5	-17.197	65.719	53.795	1.00	28.76	N
ATOM	3336	CA	GLY	B	5	-16.652	66.277	55.026	1.00	29.71	C
ATOM	3337	C	GLY	B	5	-17.389	67.425	55.716	1.00	30.39	C
ATOM	3338	O	GLY	B	5	-16.905	67.954	56.712	1.00	29.91	O
ATOM	3339	N	THR	B	6	-18.559	67.821	55.223	1.00	30.96	N
ATOM	3340	CA	THR	B	6	-19.272	68.932	55.862	1.00	30.67	C
ATOM	3341	C	THR	B	6	-19.483	68.629	57.335	1.00	30.10	C
ATOM	3342	O	THR	B	6	-19.809	67.505	57.708	1.00	30.72	O
ATOM	3343	CB	THR	B	6	-20.643	69.186	55.215	1.00	31.87	C
ATOM	3344	OG1	THR	B	6	-20.514	69.166	53.788	1.00	33.89	O
ATOM	3345	CG2	THR	B	6	-21.173	70.527	55.643	1.00	29.85	C
ATOM	3346	N	PRO	B	7	-19.304	69.637	58.198	1.00	30.79	N
ATOM	3347	CA	PRO	B	7	-19.471	69.456	59.648	1.00	31.90	C
ATOM	3348	C	PRO	B	7	-20.914	69.166	60.057	1.00	32.44	C
ATOM	3349	O	PRO	B	7	-21.836	69.636	59.400	1.00	32.64	O
ATOM	3350	CB	PRO	B	7	-19.013	70.795	60.235	1.00	32.24	C
ATOM	3351	CG	PRO	B	7	-18.339	71.531	59.080	1.00	31.66	C
ATOM	3352	CD	PRO	B	7	-18.993	71.033	57.849	1.00	30.31	C
ATOM	3353	N	LYS	B	8	-21.100	68.398	61.133	1.00	32.25	N



ATOM	3354	CA	LYS	B	8	-22.436	68.116	61.662	1.00	32.96	C
ATOM	3355	C	LYS	B	8	-22.918	69.438	62.271	1.00	33.23	C
ATOM	3356	O	LYS	B	8	-22.124	70.341	62.496	1.00	34.05	O
ATOM	3357	CB	LYS	B	8	-22.388	67.100	62.800	1.00	33.62	C
ATOM	3358	CG	LYS	B	8	-21.823	65.756	62.477	1.00	34.61	C
ATOM	3359	CD	LYS	B	8	-21.559	65.007	63.760	1.00	35.21	C
ATOM	3360	CE	LYS	B	8	-21.014	63.635	63.482	1.00	35.79	C
ATOM	3361	NZ	LYS	B	8	-20.768	62.926	64.767	1.00	38.27	N
ATOM	3362	N	SER	B	9	-24.215	69.549	62.555	1.00	33.91	N
ATOM	3363	CA	SER	B	9	-24.729	70.773	63.173	1.00	32.70	C
ATOM	3364	C	SER	B	9	-24.493	70.654	64.702	1.00	31.38	C
ATOM	3365	O	SER	B	9	-24.272	69.548	65.218	1.00	32.24	O
ATOM	3366	CB	SER	B	9	-26.238	70.908	62.873	1.00	32.64	C
ATOM	3367	OG	SER	B	9	-26.959	69.881	63.525	1.00	32.00	O
ATOM	3368	N	ALA	B	10	-24.519	71.778	65.412	1.00	31.83	N
ATOM	3369	CA	ALA	B	10	-24.360	71.771	66.875	1.00	31.87	C
ATOM	3370	C	ALA	B	10	-25.498	70.952	67.489	1.00	32.26	C
ATOM	3371	O	ALA	B	10	-25.328	70.309	68.517	1.00	32.61	O
ATOM	3372	CB	ALA	B	10	-24.403	73.196	67.414	1.00	31.67	C
ATOM	3373	N	GLU	B	11	-26.668	70.993	66.846	1.00	34.24	N
ATOM	3374	CA	GLU	B	11	-27.849	70.252	67.289	1.00	35.30	C
ATOM	3375	C	GLU	B	11	-27.535	68.756	67.306	1.00	35.47	C
ATOM	3376	O	GLU	B	11	-27.839	68.030	68.270	1.00	34.30	O
ATOM	3377	CB	GLU	B	11	-29.015	70.500	66.312	1.00	38.59	C
ATOM	3378	CG	GLU	B	11	-29.604	71.923	66.282	1.00	42.86	C
ATOM	3379	CD	GLU	B	11	-28.593	73.028	65.934	1.00	45.58	C
ATOM	3380	OE1	GLU	B	11	-27.824	72.877	64.961	1.00	45.02	O
ATOM	3381	OE2	GLU	B	11	-28.590	74.072	66.638	1.00	48.31	O
ATOM	3382	N	GLN	B	12	-26.945	68.304	66.206	1.00	34.71	N
ATOM	3383	CA	GLN	B	12	-26.552	66.907	66.039	1.00	36.68	C
ATOM	3384	C	GLN	B	12	-25.559	66.452	67.136	1.00	34.95	C
ATOM	3385	O	GLN	B	12	-25.686	65.365	67.718	1.00	35.45	O
ATOM	3386	CB	GLN	B	12	-25.900	66.726	64.661	1.00	38.31	C
ATOM	3387	CG	GLN	B	12	-26.719	67.253	63.488	1.00	41.71	C
ATOM	3388	CD	GLN	B	12	-26.048	66.982	62.149	1.00	42.76	C
ATOM	3389	OE1	GLN	B	12	-25.620	65.856	61.879	1.00	45.50	O
ATOM	3390	NE2	GLN	B	12	-25.961	68.002	61.304	1.00	43.27	N
ATOM	3391	N	ILE	B	13	-24.569	67.288	67.410	1.00	34.82	N
ATOM	3392	CA	ILE	B	13	-23.567	66.957	68.413	1.00	33.53	C
ATOM	3393	C	ILE	B	13	-24.213	66.890	69.800	1.00	33.17	C
ATOM	3394	O	ILE	B	13	-24.030	65.932	70.556	1.00	31.07	O
ATOM	3395	CB	ILE	B	13	-22.464	68.015	68.415	1.00	34.35	C
ATOM	3396	CG1	ILE	B	13	-21.849	68.113	67.014	1.00	35.40	C
ATOM	3397	CG2	ILE	B	13	-21.399	67.644	69.430	1.00	35.05	C
ATOM	3398	CD1	ILE	B	13	-20.644	69.049	66.910	1.00	35.73	C
ATOM	3399	N	GLN	B	14	-24.989	67.917	70.121	1.00	33.73	N
ATOM	3400	CA	GLN	B	14	-25.674	67.990	71.416	1.00	34.26	C
ATOM	3401	C	GLN	B	14	-26.477	66.729	71.665	1.00	33.85	C
ATOM	3402	O	GLN	B	14	-26.492	66.186	72.764	1.00	33.64	O
ATOM	3403	CB	GLN	B	14	-26.615	69.194	71.446	1.00	33.71	C
ATOM	3404	CG	GLN	B	14	-27.149	69.479	72.830	1.00	34.74	C
ATOM	3405	CD	GLN	B	14	-26.057	69.909	73.778	1.00	34.37	C
ATOM	3406	OE1	GLN	B	14	-25.439	70.963	73.594	1.00	37.59	O
ATOM	3407	NE2	GLN	B	14	-25.802	69.098	74.789	1.00	34.73	N
ATOM	3408	N	GLN	B	15	-27.135	66.266	70.614	1.00	35.77	N
ATOM	3409	CA	GLN	B	15	-27.956	65.080	70.671	1.00	37.26	C
ATOM	3410	C	GLN	B	15	-27.161	63.815	70.990	1.00	37.19	C
ATOM	3411	O	GLN	B	15	-27.567	63.016	71.850	1.00	37.29	O
ATOM	3412	CB	GLN	B	15	-28.706	64.924	69.341	1.00	39.83	C
ATOM	3413	CG	GLN	B	15	-29.899	64.002	69.420	1.00	42.63	C
ATOM	3414	CD	GLN	B	15	-30.740	64.032	68.161	1.00	45.79	C
ATOM	3415	OE1	GLN	B	15	-31.025	65.110	67.603	1.00	46.87	O
ATOM	3416	NE2	GLN	B	15	-31.161	62.850	67.706	1.00	46.87	N
ATOM	3417	N	GLU	B	16	-26.040	63.618	70.297	1.00	36.74	N
ATOM	3418	CA	GLU	B	16	-25.203	62.436	70.544	1.00	37.41	C
ATOM	3419	C	GLU	B	16	-24.704	62.467	71.987	1.00	35.86	C
ATOM	3420	O	GLU	B	16	-24.692	61.445	72.680	1.00	36.23	O
ATOM	3421	CB	GLU	B	16	-23.992	62.402	69.597	1.00	39.42	C
ATOM	3422	CG	GLU	B	16	-24.329	62.290	68.117	1.00	43.46	C
ATOM	3423	CD	GLU	B	16	-23.123	61.871	67.282	1.00	46.58	C
ATOM	3424	OE1	GLU	B	16	-22.587	60.757	67.533	1.00	49.23	O
ATOM	3425	OE2	GLU	B	16	-22.709	62.641	66.383	1.00	46.56	O
ATOM	3426	N	TRP	B	17	-24.307	63.655	72.431	1.00	35.13	N
ATOM	3427	CA	TRP	B	17	-23.811	63.839	73.788	1.00	36.18	C
ATOM	3428	C	TRP	B	17	-24.866	63.473	74.825	1.00	36.92	C
ATOM	3429	O	TRP	B	17	-24.552	62.935	75.888	1.00	37.70	O
ATOM	3430	CB	TRP	B	17	-23.385	65.292	74.003	1.00	35.31	C
ATOM	3431	CG	TRP	B	17	-22.096	65.687	73.319	1.00	34.02	C
ATOM	3432	CD1	TRP	B	17	-21.257	64.873	72.598	1.00	34.34	C
ATOM	3433	CD2	TRP	B	17	-21.517	67.000	73.277	1.00	34.61	C



ATOM	3434	NE1	TRP	B	17	-20.195	65.610	72.104	1.00	34.94	N
ATOM	3435	CE2	TRP	B	17	-20.330	66.916	72.504	1.00	34.59	C
ATOM	3436	CE3	TRP	B	17	-21.883	68.243	73.814	1.00	34.60	C
ATOM	3437	CZ2	TRP	B	17	-19.514	68.033	72.253	1.00	34.61	C
ATOM	3438	CZ3	TRP	B	17	-21.063	69.361	73.561	1.00	33.28	C
ATOM	3439	CH2	TRP	B	17	-19.894	69.237	72.783	1.00	33.22	C
ATOM	3440	N	ASP	B	18	-26.124	63.738	74.499	1.00	38.43	N
ATOM	3441	CA	ASP	B	18	-27.213	63.461	75.418	1.00	39.22	C
ATOM	3442	C	ASP	B	18	-27.782	62.046	75.353	1.00	39.51	C
ATOM	3443	O	ASP	B	18	-28.367	61.572	76.334	1.00	39.25	O
ATOM	3444	CB	ASP	B	18	-28.346	64.467	75.205	1.00	41.16	C
ATOM	3445	CG	ASP	B	18	-27.916	65.906	75.462	1.00	42.45	C
ATOM	3446	OD1	ASP	B	18	-27.107	66.147	76.379	1.00	43.30	O
ATOM	3447	OD2	ASP	B	18	-28.407	66.807	74.754	1.00	44.91	O
ATOM	3448	N	THR	B	19	-27.598	61.360	74.226	1.00	38.96	N
ATOM	3449	CA	THR	B	19	-28.150	60.016	74.085	1.00	38.92	C
ATOM	3450	C	THR	B	19	-27.161	58.851	74.047	1.00	38.42	C
ATOM	3451	O	THR	B	19	-27.519	57.730	74.413	1.00	39.08	O
ATOM	3452	CB	THR	B	19	-29.031	59.939	72.832	1.00	39.54	C
ATOM	3453	OG1	THR	B	19	-28.207	59.921	71.664	1.00	40.41	O
ATOM	3454	CG2	THR	B	19	-29.928	61.153	72.758	1.00	38.98	C
ATOM	3455	N	ASN	B	20	-25.930	59.099	73.602	1.00	37.21	N
ATOM	3456	CA	ASN	B	20	-24.932	58.030	73.544	1.00	36.26	C
ATOM	3457	C	ASN	B	20	-24.409	57.654	74.946	1.00	35.20	C
ATOM	3458	O	ASN	B	20	-23.854	58.493	75.676	1.00	34.19	O
ATOM	3459	CB	ASN	B	20	-23.757	58.453	72.643	1.00	35.34	C
ATOM	3460	CG	ASN	B	20	-22.854	57.283	72.273	1.00	36.57	C
ATOM	3461	OD1	ASN	B	20	-22.796	56.268	72.982	1.00	34.76	O
ATOM	3462	ND2	ASN	B	20	-22.138	57.421	71.159	1.00	36.85	N
ATOM	3463	N	PRO	B	21	-24.613	56.394	75.353	1.00	34.38	N
ATOM	3464	CA	PRO	B	21	-24.171	55.881	76.656	1.00	33.91	C
ATOM	3465	C	PRO	B	21	-22.691	56.175	76.900	1.00	33.44	C
ATOM	3466	O	PRO	B	21	-22.235	56.273	78.053	1.00	31.82	O
ATOM	3467	CB	PRO	B	21	-24.453	54.393	76.541	1.00	35.30	C
ATOM	3468	CG	PRO	B	21	-25.741	54.405	75.738	1.00	36.25	C
ATOM	3469	CD	PRO	B	21	-25.420	55.385	74.639	1.00	35.37	C
ATOM	3470	N	ARG	B	22	-21.958	56.304	75.795	1.00	31.90	N
ATOM	3471	CA	ARG	B	22	-20.527	56.603	75.829	1.00	31.28	C
ATOM	3472	C	ARG	B	22	-20.232	57.829	76.686	1.00	30.67	C
ATOM	3473	O	ARG	B	22	-19.227	57.852	77.404	1.00	30.20	O
ATOM	3474	CB	ARG	B	22	-20.000	56.863	74.413	1.00	29.07	C
ATOM	3475	CG	ARG	B	22	-18.550	57.354	74.356	1.00	27.02	C
ATOM	3476	CD	ARG	B	22	-17.601	56.288	74.906	1.00	26.94	C
ATOM	3477	NE	ARG	B	22	-16.204	56.703	74.743	1.00	26.73	N
ATOM	3478	CZ	ARG	B	22	-15.547	57.478	75.598	1.00	27.93	C
ATOM	3479	NH1	ARG	B	22	-16.154	57.919	76.700	1.00	24.56	N
ATOM	3480	NH2	ARG	B	22	-14.286	57.835	75.339	1.00	22.51	N
ATOM	3481	N	TRP	B	23	-21.107	58.832	76.609	1.00	31.78	N
ATOM	3482	CA	TRP	B	23	-20.931	60.088	77.349	1.00	32.42	C
ATOM	3483	C	TRP	B	23	-21.696	60.193	78.672	1.00	33.75	C
ATOM	3484	O	TRP	B	23	-21.734	61.251	79.298	1.00	33.01	O
ATOM	3485	CB	TRP	B	23	-21.333	61.243	76.461	1.00	30.89	C
ATOM	3486	CG	TRP	B	23	-20.770	61.112	75.111	1.00	31.27	C
ATOM	3487	CD1	TRP	B	23	-21.460	61.000	73.937	1.00	30.85	C
ATOM	3488	CD2	TRP	B	23	-19.373	61.063	74.768	1.00	31.04	C
ATOM	3489	NE1	TRP	B	23	-20.579	60.882	72.879	1.00	30.44	N
ATOM	3490	CE2	TRP	B	23	-19.294	60.916	73.358	1.00	30.85	C
ATOM	3491	CE3	TRP	B	23	-18.186	61.128	75.513	1.00	29.74	C
ATOM	3492	CZ2	TRP	B	23	-18.066	60.830	72.675	1.00	29.24	C
ATOM	3493	CZ3	TRP	B	23	-16.961	61.042	74.834	1.00	28.73	C
ATOM	3494	CH2	TRP	B	23	-16.915	60.894	73.430	1.00	29.34	C
ATOM	3495	N	LYS	B	24	-22.291	59.086	79.096	1.00	36.41	N
ATOM	3496	CA	LYS	B	24	-23.053	59.019	80.350	1.00	37.86	C
ATOM	3497	C	LYS	B	24	-22.422	59.739	81.574	1.00	39.18	C
ATOM	3498	O	LYS	B	24	-23.117	60.419	82.331	1.00	40.45	O
ATOM	3499	CB	LYS	B	24	-23.291	57.546	80.696	1.00	38.37	C
ATOM	3500	CG	LYS	B	24	-24.113	57.320	81.941	1.00	41.59	C
ATOM	3501	CD	LYS	B	24	-24.148	55.843	82.340	1.00	42.97	C
ATOM	3502	CE	LYS	B	24	-22.893	55.448	83.103	1.00	44.44	C
ATOM	3503	NZ	LYS	B	24	-22.932	54.062	83.621	1.00	45.28	N
ATOM	3504	N	ASP	B	25	-21.119	59.583	81.794	1.00	38.83	N
ATOM	3505	CA	ASP	B	25	-20.476	60.233	82.946	1.00	38.47	C
ATOM	3506	C	ASP	B	25	-19.459	61.321	82.534	1.00	37.08	C
ATOM	3507	O	ASP	B	25	-18.603	61.710	83.327	1.00	36.07	O
ATOM	3508	CB	ASP	B	25	-19.750	59.175	83.782	1.00	39.43	C
ATOM	3509	CG	ASP	B	25	-20.638	57.996	84.130	1.00	40.72	C
ATOM	3510	OD1	ASP	B	25	-21.649	58.198	84.841	1.00	43.18	O
ATOM	3511	OD2	ASP	B	25	-20.320	56.868	83.698	1.00	40.22	O
ATOM	3512	N	VAL	B	26	-19.582	61.822	81.310	1.00	35.01	N
ATOM	3513	CA	VAL	B	26	-18.641	62.792	80.792	1.00	32.53	C



ATOM	3514	C	VAL	B	26	-19.086	64.242	80.832	1.00	30.57	C
ATOM	3515	O	VAL	B	26	-20.007	64.644	80.155	1.00	30.35	O
ATOM	3516	CB	VAL	B	26	-18.254	62.436	79.335	1.00	32.00	C
ATOM	3517	CG1	VAL	B	26	-17.283	63.464	78.778	1.00	30.70	C
ATOM	3518	CG2	VAL	B	26	-17.657	61.006	79.281	1.00	32.30	C
ATOM	3519	N	THR	B	27	-18.399	65.043	81.627	1.00	29.48	N
ATOM	3520	CA	THR	B	27	-18.714	66.452	81.697	1.00	28.77	C
ATOM	3521	C	THR	B	27	-17.858	67.206	80.699	1.00	29.19	C
ATOM	3522	O	THR	B	27	-16.648	66.938	80.573	1.00	27.24	O
ATOM	3523	CB	THR	B	27	-18.394	67.025	83.079	1.00	30.23	C
ATOM	3524	OG1	THR	B	27	-19.313	66.483	84.032	1.00	32.44	O
ATOM	3525	CG2	THR	B	27	-18.454	68.566	83.054	1.00	29.75	C
ATOM	3526	N	ARG	B	28	-18.480	68.176	80.033	1.00	29.36	N
ATOM	3527	CA	ARG	B	28	-17.813	69.044	79.070	1.00	28.61	C
ATOM	3528	C	ARG	B	28	-18.167	70.473	79.481	1.00	30.16	C
ATOM	3529	O	ARG	B	28	-19.358	70.843	79.507	1.00	29.71	O
ATOM	3530	CB	ARG	B	28	-18.322	68.764	77.653	1.00	27.86	C
ATOM	3531	CG	ARG	B	28	-17.860	67.420	77.044	1.00	27.26	C
ATOM	3532	CD	ARG	B	28	-18.546	67.224	75.672	1.00	28.09	C
ATOM	3533	NE	ARG	B	28	-17.940	66.214	74.799	1.00	28.50	N
ATOM	3534	CZ	ARG	B	28	-18.259	64.923	74.771	1.00	27.77	C
ATOM	3535	NH1	ARG	B	28	-19.196	64.436	75.576	1.00	28.26	N
ATOM	3536	NH2	ARG	B	28	-17.644	64.111	73.918	1.00	26.86	N
ATOM	3537	N	THR	B	29	-17.147	71.275	79.800	1.00	29.63	N
ATOM	3538	CA	THR	B	29	-17.375	72.658	80.229	1.00	29.81	C
ATOM	3539	C	THR	B	29	-17.468	73.654	79.083	1.00	29.18	C
ATOM	3540	O	THR	B	29	-17.405	74.853	79.313	1.00	30.57	O
ATOM	3541	CB	THR	B	29	-16.288	73.181	81.253	1.00	31.40	C
ATOM	3542	OG1	THR	B	29	-14.984	73.135	80.649	1.00	33.74	O
ATOM	3543	CG2	THR	B	29	-16.290	72.337	82.532	1.00	29.79	C
ATOM	3544	N	TYR	B	30	-17.595	73.156	77.854	1.00	28.72	N
ATOM	3545	CA	TYR	B	30	-17.764	74.011	76.668	1.00	27.90	C
ATOM	3546	C	TYR	B	30	-18.998	73.480	75.944	1.00	27.18	C
ATOM	3547	O	TYR	B	30	-19.505	72.413	76.272	1.00	27.85	O
ATOM	3548	CB	TYR	B	30	-16.529	73.971	75.745	1.00	27.12	C
ATOM	3549	CG	TYR	B	30	-16.044	72.570	75.444	1.00	28.17	C
ATOM	3550	CD1	TYR	B	30	-16.717	71.748	74.531	1.00	29.07	C
ATOM	3551	CD2	TYR	B	30	-14.941	72.046	76.120	1.00	28.26	C
ATOM	3552	CE1	TYR	B	30	-16.300	70.417	74.301	1.00	29.78	C
ATOM	3553	CE2	TYR	B	30	-14.516	70.732	75.905	1.00	30.08	C
ATOM	3554	CZ	TYR	B	30	-15.200	69.917	74.992	1.00	28.88	C
ATOM	3555	OH	TYR	B	30	-14.768	68.616	74.796	1.00	30.30	O
ATOM	3556	N	SER	B	31	-19.470	74.220	74.951	1.00	27.60	N
ATOM	3557	CA	SER	B	31	-20.679	73.853	74.216	1.00	28.83	C
ATOM	3558	C	SER	B	31	-20.502	73.115	72.901	1.00	29.87	C
ATOM	3559	O	SER	B	31	-19.431	73.094	72.313	1.00	28.80	O
ATOM	3560	CB	SER	B	31	-21.473	75.106	73.890	1.00	28.05	C
ATOM	3561	OG	SER	B	31	-20.758	75.865	72.948	1.00	29.38	O
ATOM	3562	N	ALA	B	32	-21.602	72.540	72.429	1.00	29.78	N
ATOM	3563	CA	ALA	B	32	-21.589	71.853	71.151	1.00	30.79	C
ATOM	3564	C	ALA	B	32	-21.274	72.962	70.134	1.00	30.32	C
ATOM	3565	O	ALA	B	32	-20.480	72.770	69.196	1.00	29.35	O
ATOM	3566	CB	ALA	B	32	-22.951	71.231	70.886	1.00	30.03	C
ATOM	3567	N	GLU	B	33	-21.864	74.143	70.346	1.00	29.54	N
ATOM	3568	CA	GLU	B	33	-21.621	75.271	69.445	1.00	29.75	C
ATOM	3569	C	GLU	B	33	-20.141	75.612	69.361	1.00	29.87	C
ATOM	3570	O	GLU	B	33	-19.620	75.905	68.282	1.00	28.53	O
ATOM	3571	CB	GLU	B	33	-22.368	76.526	69.904	1.00	32.74	C
ATOM	3572	CG	GLU	B	33	-23.905	76.495	69.727	1.00	36.32	C
ATOM	3573	CD	GLU	B	33	-24.629	75.392	70.554	1.00	39.40	C
ATOM	3574	OE1	GLU	B	33	-24.105	74.909	71.594	1.00	38.86	O
ATOM	3575	OE2	GLU	B	33	-25.762	75.020	70.156	1.00	42.98	O
ATOM	3576	N	ASP	B	34	-19.474	75.590	70.513	1.00	29.02	N
ATOM	3577	CA	ASP	B	34	-18.049	75.914	70.565	1.00	28.82	C
ATOM	3578	C	ASP	B	34	-17.225	74.964	69.693	1.00	27.56	C
ATOM	3579	O	ASP	B	34	-16.257	75.389	69.081	1.00	28.05	O
ATOM	3580	CB	ASP	B	34	-17.519	75.853	72.008	1.00	28.96	C
ATOM	3581	CG	ASP	B	34	-18.030	76.992	72.868	1.00	31.31	C
ATOM	3582	OD1	ASP	B	34	-18.325	78.075	72.293	1.00	32.41	O
ATOM	3583	OD2	ASP	B	34	-18.122	76.802	74.116	1.00	33.32	O
ATOM	3584	N	VAL	B	35	-17.615	73.687	69.663	1.00	27.39	N
ATOM	3585	CA	VAL	B	35	-16.915	72.654	68.882	1.00	26.00	C
ATOM	3586	C	VAL	B	35	-17.065	72.943	67.387	1.00	26.41	C
ATOM	3587	O	VAL	B	35	-16.084	72.927	66.637	1.00	25.54	O
ATOM	3588	CB	VAL	B	35	-17.465	71.227	69.202	1.00	27.57	C
ATOM	3589	CG1	VAL	B	35	-16.878	70.199	68.248	1.00	24.86	C
ATOM	3590	CG2	VAL	B	35	-17.134	70.831	70.655	1.00	25.94	C
ATOM	3591	N	VAL	B	36	-18.298	73.212	66.951	1.00	23.96	N
ATOM	3592	CA	VAL	B	36	-18.585	73.513	65.552	1.00	25.97	C
ATOM	3593	C	VAL	B	36	-17.800	74.725	65.057	1.00	25.38	C



ATOM	3594	O	VAL	B	36	-17.268	74.741	63.938	1.00	28.26	O
ATOM	3595	CB	VAL	B	36	-20.126	73.800	65.362	1.00	26.68	C
ATOM	3596	CG1	VAL	B	36	-20.430	74.185	63.932	1.00	26.05	C
ATOM	3597	CG2	VAL	B	36	-20.941	72.581	65.808	1.00	27.14	C
ATOM	3598	N	ALA	B	37	-17.731	75.747	65.892	1.00	24.54	N
ATOM	3599	CA	ALA	B	37	-17.023	76.978	65.550	1.00	24.31	C
ATOM	3600	C	ALA	B	37	-15.546	76.728	65.207	1.00	25.24	C
ATOM	3601	O	ALA	B	37	-14.939	77.497	64.451	1.00	23.93	O
ATOM	3602	CB	ALA	B	37	-17.115	77.967	66.727	1.00	25.71	C
ATOM	3603	N	LEU	B	38	-14.965	75.647	65.750	1.00	24.76	N
ATOM	3604	CA	LEU	B	38	-13.541	75.421	65.487	1.00	25.80	C
ATOM	3605	C	LEU	B	38	-13.286	74.435	64.333	1.00	27.17	C
ATOM	3606	O	LEU	B	38	-12.132	74.234	63.908	1.00	25.83	O
ATOM	3607	CB	LEU	B	38	-12.849	74.958	66.779	1.00	24.61	C
ATOM	3608	CG	LEU	B	38	-12.802	75.989	67.927	1.00	22.63	C
ATOM	3609	CD1	LEU	B	38	-12.587	75.247	69.257	1.00	24.60	C
ATOM	3610	CD2	LEU	B	38	-11.715	77.047	67.694	1.00	22.57	C
ATOM	3611	N	GLN	B	39	-14.368	73.896	63.773	1.00	26.41	N
ATOM	3612	CA	GLN	B	39	-14.240	72.903	62.719	1.00	27.18	C
ATOM	3613	C	GLN	B	39	-14.051	73.360	61.302	1.00	27.68	C
ATOM	3614	O	GLN	B	39	-13.886	72.502	60.415	1.00	29.65	O
ATOM	3615	CB	GLN	B	39	-15.429	71.946	62.761	1.00	26.03	C
ATOM	3616	CG	GLN	B	39	-15.445	71.096	63.990	1.00	27.65	C
ATOM	3617	CD	GLN	B	39	-16.617	70.163	64.013	1.00	28.76	C
ATOM	3618	OE1	GLN	B	39	-17.711	70.553	63.620	1.00	31.86	O
ATOM	3619	NE2	GLN	B	39	-16.412	68.925	64.485	1.00	28.23	N
ATOM	3620	N	GLY	B	40	-14.049	74.670	61.058	1.00	27.16	N
ATOM	3621	CA	GLY	B	40	-13.910	75.149	59.693	1.00	27.23	C
ATOM	3622	C	GLY	B	40	-15.077	74.618	58.853	1.00	28.31	C
ATOM	3623	O	GLY	B	40	-16.156	74.324	59.386	1.00	28.92	O
ATOM	3624	N	SER	B	41	-14.879	74.472	57.552	1.00	27.84	N
ATOM	3625	CA	SER	B	41	-15.950	73.978	56.685	1.00	27.98	C
ATOM	3626	C	SER	B	41	-15.832	72.526	56.213	1.00	28.33	C
ATOM	3627	O	SER	B	41	-16.721	72.011	55.513	1.00	25.88	O
ATOM	3628	CB	SER	B	41	-16.077	74.887	55.475	1.00	28.58	C
ATOM	3629	OG	SER	B	41	-14.953	74.786	54.643	1.00	32.96	O
ATOM	3630	N	VAL	B	42	-14.730	71.874	56.592	1.00	27.06	N
ATOM	3631	CA	VAL	B	42	-14.466	70.494	56.213	1.00	25.20	C
ATOM	3632	C	VAL	B	42	-13.899	69.760	57.427	1.00	24.50	C
ATOM	3633	O	VAL	B	42	-12.966	70.224	58.035	1.00	24.14	O
ATOM	3634	CB	VAL	B	42	-13.409	70.414	55.055	1.00	25.87	C
ATOM	3635	CG1	VAL	B	42	-13.283	68.989	54.578	1.00	26.19	C
ATOM	3636	CG2	VAL	B	42	-13.784	71.308	53.888	1.00	24.80	C
ATOM	3637	N	VAL	B	43	-14.464	68.618	57.781	1.00	23.82	N
ATOM	3638	CA	VAL	B	43	-13.964	67.848	58.912	1.00	23.54	C
ATOM	3639	C	VAL	B	43	-13.354	66.586	58.298	1.00	24.20	C
ATOM	3640	O	VAL	B	43	-14.048	65.846	57.610	1.00	22.63	O
ATOM	3641	CB	VAL	B	43	-15.109	67.421	59.872	1.00	24.18	C
ATOM	3642	CG1	VAL	B	43	-14.647	66.343	60.828	1.00	24.75	C
ATOM	3643	CG2	VAL	B	43	-15.604	68.608	60.674	1.00	25.61	C
ATOM	3644	N	GLU	B	44	-12.061	66.334	58.521	1.00	22.58	N
ATOM	3645	CA	GLU	B	44	-11.478	65.105	57.982	1.00	21.65	C
ATOM	3646	C	GLU	B	44	-11.940	63.918	58.810	1.00	22.93	C
ATOM	3647	O	GLU	B	44	-12.022	63.982	60.046	1.00	21.32	O
ATOM	3648	CB	GLU	B	44	-9.931	65.155	58.012	1.00	21.04	C
ATOM	3649	CG	GLU	B	44	-9.301	66.170	57.078	1.00	20.13	C
ATOM	3650	CD	GLU	B	44	-7.748	66.129	57.151	1.00	22.41	C
ATOM	3651	OE1	GLU	B	44	-7.190	66.769	58.053	1.00	22.24	O
ATOM	3652	OE2	GLU	B	44	-7.112	65.438	56.331	1.00	19.61	O
ATOM	3653	N	GLU	B	45	-12.235	62.820	58.126	1.00	21.93	N
ATOM	3654	CA	GLU	B	45	-12.659	61.611	58.812	1.00	23.71	C
ATOM	3655	C	GLU	B	45	-11.390	60.871	59.235	1.00	23.06	C
ATOM	3656	O	GLU	B	45	-10.474	60.688	58.418	1.00	24.15	O
ATOM	3657	CB	GLU	B	45	-13.496	60.739	57.861	1.00	23.96	C
ATOM	3658	CG	GLU	B	45	-13.695	59.289	58.325	1.00	25.93	C
ATOM	3659	CD	GLU	B	45	-14.592	59.188	59.540	1.00	28.06	C
ATOM	3660	OE1	GLU	B	45	-14.989	60.240	60.056	1.00	30.78	O
ATOM	3661	OE2	GLU	B	45	-14.893	58.064	59.981	1.00	28.46	O
ATOM	3662	N	HIS	B	46	-11.335	60.471	60.502	1.00	21.39	N
ATOM	3663	CA	HIS	B	46	-10.200	59.725	61.054	1.00	20.95	C
ATOM	3664	C	HIS	B	46	-10.680	58.332	61.393	1.00	19.39	C
ATOM	3665	O	HIS	B	46	-11.054	58.040	62.537	1.00	20.72	O
ATOM	3666	CB	HIS	B	46	-9.666	60.411	62.311	1.00	18.66	C
ATOM	3667	CG	HIS	B	46	-9.190	61.807	62.061	1.00	18.69	C
ATOM	3668	ND1	HIS	B	46	-8.105	62.082	61.265	1.00	18.70	N
ATOM	3669	CD2	HIS	B	46	-9.679	63.005	62.462	1.00	16.34	C
ATOM	3670	CE1	HIS	B	46	-7.943	63.393	61.185	1.00	20.05	C
ATOM	3671	NE2	HIS	B	46	-8.883	63.976	61.907	1.00	18.87	N
ATOM	3672	N	THR	B	47	-10.672	57.484	60.374	1.00	19.12	N
ATOM	3673	CA	THR	B	47	-11.156	56.108	60.468	1.00	18.34	C



ATOM	3674	C	THR	B	47	-10.553	55.264	61.586	1.00	19.40	C
ATOM	3675	O	THR	B	47	-11.274	54.667	62.406	1.00	20.59	O
ATOM	3676	CB	THR	B	47	-10.927	55.365	59.125	1.00	16.86	C
ATOM	3677	OG1	THR	B	47	-11.601	56.063	58.066	1.00	16.42	O
ATOM	3678	CG2	THR	B	47	-11.418	53.901	59.197	1.00	17.89	C
ATOM	3679	N	LEU	B	48	-9.233	55.189	61.606	1.00	17.39	N
ATOM	3680	CA	LEU	B	48	-8.605	54.377	62.592	1.00	17.47	C
ATOM	3681	C	LEU	B	48	-8.832	54.919	63.983	1.00	17.68	C
ATOM	3682	O	LEU	B	48	-9.051	54.131	64.901	1.00	19.32	O
ATOM	3683	CB	LEU	B	48	-7.109	54.213	62.285	1.00	17.87	C
ATOM	3684	CG	LEU	B	48	-6.900	53.452	60.977	1.00	17.88	C
ATOM	3685	CD1	LEU	B	48	-5.429	53.139	60.832	1.00	17.72	C
ATOM	3686	CD2	LEU	B	48	-7.704	52.148	60.957	1.00	18.58	C
ATOM	3687	N	ALA	B	49	-8.825	56.245	64.141	1.00	17.94	N
ATOM	3688	CA	ALA	B	49	-9.048	56.813	65.462	1.00	17.77	C
ATOM	3689	C	ALA	B	49	-10.483	56.500	65.924	1.00	19.00	C
ATOM	3690	O	ALA	B	49	-10.722	56.202	67.122	1.00	19.78	O
ATOM	3691	CB	ALA	B	49	-8.811	58.319	65.450	1.00	15.90	C
ATOM	3692	N	ARG	B	50	-11.427	56.543	64.983	1.00	21.26	N
ATOM	3693	CA	ARG	B	50	-12.834	56.256	65.326	1.00	20.85	C
ATOM	3694	C	ARG	B	50	-13.023	54.792	65.679	1.00	22.61	C
ATOM	3695	O	ARG	B	50	-13.512	54.437	66.759	1.00	21.90	O
ATOM	3696	CB	ARG	B	50	-13.768	56.592	64.161	1.00	22.00	C
ATOM	3697	CG	ARG	B	50	-15.269	56.416	64.532	1.00	22.30	C
ATOM	3698	CD	ARG	B	50	-16.200	56.786	63.362	1.00	21.47	C
ATOM	3699	NE	ARG	B	50	-15.881	58.090	62.808	1.00	22.98	N
ATOM	3700	CZ	ARG	B	50	-16.147	59.245	63.415	1.00	25.68	C
ATOM	3701	NH1	ARG	B	50	-16.746	59.241	64.599	1.00	24.89	N
ATOM	3702	NH2	ARG	B	50	-15.807	60.399	62.841	1.00	25.26	N
ATOM	3703	N	ARG	B	51	-12.659	53.922	64.739	1.00	23.17	N
ATOM	3704	CA	ARG	B	51	-12.782	52.505	64.980	1.00	20.51	C
ATOM	3705	C	ARG	B	51	-12.054	52.100	66.267	1.00	21.44	C
ATOM	3706	O	ARG	B	51	-12.619	51.405	67.128	1.00	19.59	O
ATOM	3707	CB	ARG	B	51	-12.226	51.733	63.789	1.00	19.70	C
ATOM	3708	CG	ARG	B	51	-12.469	50.213	63.817	1.00	24.02	C
ATOM	3709	CD	ARG	B	51	-11.993	49.626	62.482	1.00	26.45	C
ATOM	3710	NE	ARG	B	51	-12.445	48.255	62.258	1.00	26.23	N
ATOM	3711	CZ	ARG	B	51	-11.890	47.183	62.801	1.00	28.54	C
ATOM	3712	NH1	ARG	B	51	-10.849	47.293	63.624	1.00	27.62	N
ATOM	3713	NH2	ARG	B	51	-12.355	45.981	62.489	1.00	29.33	N
ATOM	3714	N	GLY	B	52	-10.803	52.553	66.412	1.00	19.12	N
ATOM	3715	CA	GLY	B	52	-10.026	52.167	67.581	1.00	20.10	C
ATOM	3716	C	GLY	B	52	-10.678	52.554	68.906	1.00	19.18	C
ATOM	3717	O	GLY	B	52	-10.720	51.741	69.853	1.00	19.09	O
ATOM	3718	N	ALA	B	53	-11.151	53.797	68.974	1.00	19.57	N
ATOM	3719	CA	ALA	B	53	-11.789	54.330	70.183	1.00	21.41	C
ATOM	3720	C	ALA	B	53	-13.063	53.550	70.505	1.00	21.04	C
ATOM	3721	O	ALA	B	53	-13.359	53.271	71.667	1.00	20.49	O
ATOM	3722	CB	ALA	B	53	-12.131	55.811	69.994	1.00	19.60	C
ATOM	3723	N	GLU	B	54	-13.815	53.217	69.462	1.00	23.20	N
ATOM	3724	CA	GLU	B	54	-15.041	52.467	69.676	1.00	23.14	C
ATOM	3725	C	GLU	B	54	-14.702	51.065	70.167	1.00	24.20	C
ATOM	3726	O	GLU	B	54	-15.292	50.608	71.156	1.00	25.88	O
ATOM	3727	CB	GLU	B	54	-15.873	52.445	68.385	1.00	25.51	C
ATOM	3728	CG	GLU	B	54	-16.423	53.818	67.968	1.00	27.23	C
ATOM	3729	CD	GLU	B	54	-17.426	53.757	66.801	1.00	30.67	C
ATOM	3730	OE1	GLU	B	54	-17.696	52.653	66.259	1.00	32.90	O
ATOM	3731	OE2	GLU	B	54	-17.956	54.821	66.420	1.00	32.88	O
ATOM	3732	N	VAL	B	55	-13.754	50.383	69.520	1.00	21.98	N
ATOM	3733	CA	VAL	B	55	-13.379	49.034	69.934	1.00	23.69	C
ATOM	3734	C	VAL	B	55	-12.848	49.014	71.366	1.00	23.99	C
ATOM	3735	O	VAL	B	55	-13.262	48.178	72.180	1.00	24.46	O
ATOM	3736	CB	VAL	B	55	-12.324	48.415	68.973	1.00	22.87	C
ATOM	3737	CG1	VAL	B	55	-11.785	47.088	69.498	1.00	23.48	C
ATOM	3738	CG2	VAL	B	55	-12.943	48.231	67.616	1.00	24.97	C
ATOM	3739	N	LEU	B	56	-11.934	49.929	71.683	1.00	22.80	N
ATOM	3740	CA	LEU	B	56	-11.356	50.000	73.025	1.00	22.96	C
ATOM	3741	C	LEU	B	56	-12.467	50.071	74.093	1.00	24.70	C
ATOM	3742	O	LEU	B	56	-12.494	49.280	75.050	1.00	25.02	O
ATOM	3743	CB	LEU	B	56	-10.440	51.233	73.136	1.00	21.05	C
ATOM	3744	CG	LEU	B	56	-9.726	51.398	74.495	1.00	20.89	C
ATOM	3745	CD1	LEU	B	56	-8.947	50.145	74.780	1.00	22.41	C
ATOM	3746	CD2	LEU	B	56	-8.802	52.659	74.490	1.00	21.55	C
ATOM	3747	N	TRP	B	57	-13.386	51.002	73.900	1.00	24.28	N
ATOM	3748	CA	TRP	B	57	-14.500	51.202	74.824	1.00	27.00	C
ATOM	3749	C	TRP	B	57	-15.320	49.910	74.986	1.00	27.55	C
ATOM	3750	O	TRP	B	57	-15.575	49.483	76.117	1.00	26.73	O
ATOM	3751	CB	TRP	B	57	-15.374	52.370	74.322	1.00	27.06	C
ATOM	3752	CG	TRP	B	57	-16.432	52.840	75.284	1.00	30.14	C
ATOM	3753	CD1	TRP	B	57	-17.777	52.621	75.184	1.00	30.61	C



ATOM	3754	CD2	TRP	B	57	-16.239	53.598	76.490	1.00	30.35	C
ATOM	3755	NE1	TRP	B	57	-18.432	53.196	76.247	1.00	31.01	N
ATOM	3756	CE2	TRP	B	57	-17.513	53.801	77.066	1.00	31.69	C
ATOM	3757	CE3	TRP	B	57	-15.112	54.124	77.143	1.00	32.44	C
ATOM	3758	CZ2	TRP	B	57	-17.696	54.506	78.266	1.00	32.80	C
ATOM	3759	CZ3	TRP	B	57	-15.293	54.828	78.340	1.00	31.26	C
ATOM	3760	CH2	TRP	B	57	-16.578	55.009	78.885	1.00	33.23	C
ATOM	3761	N	GLU	B	58	-15.730	49.285	73.879	1.00	28.09	N
ATOM	3762	CA	GLU	B	58	-16.492	48.034	73.997	1.00	30.89	C
ATOM	3763	C	GLU	B	58	-15.664	46.993	74.788	1.00	31.24	C
ATOM	3764	O	GLU	B	58	-16.175	46.345	75.713	1.00	30.12	O
ATOM	3765	CB	GLU	B	58	-16.826	47.434	72.610	1.00	34.33	C
ATOM	3766	CG	GLU	B	58	-17.516	48.358	71.604	1.00	40.42	C
ATOM	3767	CD	GLU	B	58	-17.562	47.748	70.186	1.00	44.07	C
ATOM	3768	OE1	GLU	B	58	-17.917	46.550	70.064	1.00	46.08	O
ATOM	3769	OE2	GLU	B	58	-17.250	48.461	69.189	1.00	46.26	O
ATOM	3770	N	GLN	B	59	-14.388	46.830	74.439	1.00	29.04	N
ATOM	3771	CA	GLN	B	59	-13.568	45.850	75.141	1.00	29.83	C
ATOM	3772	C	GLN	B	59	-13.514	46.167	76.632	1.00	30.08	C
ATOM	3773	O	GLN	B	59	-13.609	45.266	77.465	1.00	29.37	O
ATOM	3774	CB	GLN	B	59	-12.150	45.774	74.537	1.00	30.55	C
ATOM	3775	CG	GLN	B	59	-12.124	45.186	73.123	1.00	31.59	C
ATOM	3776	CD	GLN	B	59	-10.716	45.123	72.514	1.00	31.68	C
ATOM	3777	OE1	GLN	B	59	-9.794	45.821	72.949	1.00	33.07	O
ATOM	3778	NE2	GLN	B	59	-10.563	44.311	71.491	1.00	30.75	N
ATOM	3779	N	LEU	B	60	-13.385	47.447	76.977	1.00	30.92	N
ATOM	3780	CA	LEU	B	60	-13.325	47.835	78.386	1.00	31.21	C
ATOM	3781	C	LEU	B	60	-14.580	47.399	79.186	1.00	33.05	C
ATOM	3782	O	LEU	B	60	-14.512	47.157	80.407	1.00	32.78	O
ATOM	3783	CB	LEU	B	60	-13.128	49.344	78.485	1.00	29.51	C
ATOM	3784	CG	LEU	B	60	-11.671	49.770	78.225	1.00	26.26	C
ATOM	3785	CD1	LEU	B	60	-11.600	51.263	78.099	1.00	24.88	C
ATOM	3786	CD2	LEU	B	60	-10.794	49.284	79.346	1.00	26.08	C
ATOM	3787	N	HIS	B	61	-15.701	47.271	78.482	1.00	34.66	N
ATOM	3788	CA	HIS	B	61	-16.965	46.877	79.097	1.00	37.14	C
ATOM	3789	C	HIS	B	61	-17.292	45.392	78.901	1.00	37.68	C
ATOM	3790	O	HIS	B	61	-18.009	44.804	79.719	1.00	39.17	O
ATOM	3791	CB	HIS	B	61	-18.101	47.738	78.525	1.00	38.48	C
ATOM	3792	CG	HIS	B	61	-18.033	49.182	78.924	1.00	39.71	C
ATOM	3793	ND1	HIS	B	61	-18.650	49.673	80.055	1.00	40.34	N
ATOM	3794	CD2	HIS	B	61	-17.447	50.249	78.327	1.00	40.17	C
ATOM	3795	CE1	HIS	B	61	-18.455	50.980	80.135	1.00	38.89	C
ATOM	3796	NE2	HIS	B	61	-17.729	51.355	79.099	1.00	40.43	N
ATOM	3797	N	ASP	B	62	-16.747	44.777	77.849	1.00	37.02	N
ATOM	3798	CA	ASP	B	62	-17.007	43.365	77.538	1.00	36.68	C
ATOM	3799	C	ASP	B	62	-16.017	42.362	78.116	1.00	37.27	C
ATOM	3800	O	ASP	B	62	-16.358	41.189	78.336	1.00	37.96	O
ATOM	3801	CB	ASP	B	62	-17.025	43.143	76.026	1.00	37.61	C
ATOM	3802	CG	ASP	B	62	-18.160	43.856	75.333	1.00	38.38	C
ATOM	3803	OD1	ASP	B	62	-18.992	44.503	76.013	1.00	41.57	O
ATOM	3804	OD2	ASP	B	62	-18.218	43.762	74.088	1.00	38.49	O
ATOM	3805	N	LEU	B	63	-14.783	42.785	78.331	1.00	35.12	N
ATOM	3806	CA	LEU	B	63	-13.782	41.875	78.857	1.00	34.50	C
ATOM	3807	C	LEU	B	63	-13.645	42.005	80.368	1.00	33.54	C
ATOM	3808	O	LEU	B	63	-14.101	42.980	80.944	1.00	34.00	O
ATOM	3809	CB	LEU	B	63	-12.443	42.139	78.162	1.00	34.01	C
ATOM	3810	CG	LEU	B	63	-12.544	42.028	76.642	1.00	33.13	C
ATOM	3811	CD1	LEU	B	63	-11.203	42.296	76.004	1.00	32.42	C
ATOM	3812	CD2	LEU	B	63	-13.027	40.616	76.281	1.00	35.09	C
ATOM	3813	N	GLU	B	64	-13.045	41.000	81.005	1.00	35.35	N
ATOM	3814	CA	GLU	B	64	-12.837	41.022	82.458	1.00	35.77	C
ATOM	3815	C	GLU	B	64	-11.902	42.215	82.682	1.00	34.97	C
ATOM	3816	O	GLU	B	64	-11.988	42.918	83.682	1.00	35.42	O
ATOM	3817	CB	GLU	B	64	-12.172	39.720	82.907	1.00	38.06	C
ATOM	3818	CG	GLU	B	64	-12.497	39.318	84.345	1.00	42.19	C
ATOM	3819	CD	GLU	B	64	-11.845	37.998	84.731	1.00	44.69	C
ATOM	3820	OE1	GLU	B	64	-11.973	37.013	83.966	1.00	46.47	O
ATOM	3821	OE2	GLU	B	64	-11.209	37.943	85.808	1.00	46.57	O
ATOM	3822	N	TRP	B	65	-11.012	42.428	81.715	1.00	32.37	N
ATOM	3823	CA	TRP	B	65	-10.098	43.567	81.706	1.00	29.36	C
ATOM	3824	C	TRP	B	65	-9.244	43.519	80.434	1.00	29.82	C
ATOM	3825	O	TRP	B	65	-9.121	42.465	79.788	1.00	28.47	O
ATOM	3826	CB	TRP	B	65	-9.232	43.602	82.966	1.00	28.87	C
ATOM	3827	CG	TRP	B	65	-7.992	42.769	82.957	1.00	28.30	C
ATOM	3828	CD1	TRP	B	65	-6.739	43.176	82.589	1.00	28.52	C
ATOM	3829	CD2	TRP	B	65	-7.855	41.416	83.410	1.00	29.47	C
ATOM	3830	NE1	TRP	B	65	-5.835	42.170	82.792	1.00	28.10	N
ATOM	3831	CE2	TRP	B	65	-6.492	41.076	83.292	1.00	28.99	C
ATOM	3832	CE3	TRP	B	65	-8.750	40.462	83.909	1.00	28.49	C
ATOM	3833	CZ2	TRP	B	65	-5.999	39.825	83.653	1.00	29.46	C



ATOM	3834	CZ3	TRP	B	65	-8.263	39.226	84.268	1.00	30.51	C
ATOM	3835	CH2	TRP	B	65	-6.898	38.913	84.140	1.00	31.40	C
ATOM	3836	N	VAL	B	66	-8.670	44.671	80.073	1.00	26.60	N
ATOM	3837	CA	VAL	B	66	-7.843	44.798	78.877	1.00	26.41	C
ATOM	3838	C	VAL	B	66	-6.404	44.985	79.290	1.00	26.03	C
ATOM	3839	O	VAL	B	66	-6.110	45.881	80.075	1.00	26.85	O
ATOM	3840	CB	VAL	B	66	-8.245	46.037	78.079	1.00	24.19	C
ATOM	3841	CG1	VAL	B	66	-7.389	46.134	76.814	1.00	22.80	C
ATOM	3842	CG2	VAL	B	66	-9.719	45.929	77.700	1.00	24.86	C
ATOM	3843	N	ASN	B	67	-5.514	44.121	78.841	1.00	25.18	N
ATOM	3844	CA	ASN	B	67	-4.141	44.364	79.187	1.00	24.73	C
ATOM	3845	C	ASN	B	67	-3.340	44.657	77.916	1.00	24.93	C
ATOM	3846	O	ASN	B	67	-3.845	44.538	76.799	1.00	25.35	O
ATOM	3847	CB	ASN	B	67	-3.519	43.249	80.021	1.00	25.75	C
ATOM	3848	CG	ASN	B	67	-3.718	41.883	79.449	1.00	27.52	C
ATOM	3849	OD1	ASN	B	67	-4.215	41.708	78.339	1.00	31.40	O
ATOM	3850	ND2	ASN	B	67	-3.318	40.886	80.215	1.00	27.70	N
ATOM	3851	N	ALA	B	68	-2.092	45.057	78.092	1.00	22.30	N
ATOM	3852	CA	ALA	B	68	-1.291	45.423	76.937	1.00	20.91	C
ATOM	3853	C	ALA	B	68	0.153	45.485	77.377	1.00	19.81	C
ATOM	3854	O	ALA	B	68	0.443	45.472	78.576	1.00	18.52	O
ATOM	3855	CB	ALA	B	68	-1.741	46.779	76.438	1.00	17.88	C
ATOM	3856	N	LEU	B	69	1.031	45.553	76.379	1.00	18.69	N
ATOM	3857	CA	LEU	B	69	2.469	45.629	76.578	1.00	18.30	C
ATOM	3858	C	LEU	B	69	2.927	46.838	75.786	1.00	18.91	C
ATOM	3859	O	LEU	B	69	2.342	47.152	74.743	1.00	17.17	O
ATOM	3860	CB	LEU	B	69	3.138	44.388	76.002	1.00	17.32	C
ATOM	3861	CG	LEU	B	69	2.775	43.060	76.684	1.00	19.50	C
ATOM	3862	CD1	LEU	B	69	3.681	41.972	76.086	1.00	18.15	C
ATOM	3863	CD2	LEU	B	69	3.009	43.174	78.185	1.00	18.52	C
ATOM	3864	N	GLY	B	70	3.958	47.524	76.260	1.00	17.89	N
ATOM	3865	CA	GLY	B	70	4.393	48.676	75.481	1.00	18.90	C
ATOM	3866	C	GLY	B	70	5.058	48.244	74.167	1.00	18.62	C
ATOM	3867	O	GLY	B	70	5.837	47.301	74.143	1.00	19.38	O
ATOM	3868	N	ALA	B	71	4.743	48.930	73.072	1.00	17.74	N
ATOM	3869	CA	ALA	B	71	5.343	48.671	71.769	1.00	15.98	C
ATOM	3870	C	ALA	B	71	6.021	49.956	71.258	1.00	16.92	C
ATOM	3871	O	ALA	B	71	5.419	51.041	71.283	1.00	16.56	O
ATOM	3872	CB	ALA	B	71	4.283	48.268	70.791	1.00	16.39	C
ATOM	3873	N	LEU	B	72	7.271	49.839	70.830	1.00	15.50	N
ATOM	3874	CA	LEU	B	72	7.988	50.984	70.295	1.00	14.95	C
ATOM	3875	C	LEU	B	72	8.274	50.804	68.805	1.00	15.82	C
ATOM	3876	O	LEU	B	72	8.851	51.695	68.184	1.00	14.57	O
ATOM	3877	CB	LEU	B	72	9.281	51.215	71.057	1.00	13.57	C
ATOM	3878	CG	LEU	B	72	10.274	50.063	71.017	1.00	17.00	C
ATOM	3879	CD1	LEU	B	72	11.582	50.590	70.407	1.00	18.13	C
ATOM	3880	CD2	LEU	B	72	10.532	49.570	72.450	1.00	17.23	C
ATOM	3881	N	THR	B	73	7.926	49.644	68.226	1.00	13.50	N
ATOM	3882	CA	THR	B	73	8.080	49.474	66.766	1.00	14.39	C
ATOM	3883	C	THR	B	73	6.809	48.791	66.242	1.00	15.35	C
ATOM	3884	O	THR	B	73	6.083	48.173	67.023	1.00	15.68	O
ATOM	3885	CB	THR	B	73	9.264	48.579	66.305	1.00	13.94	C
ATOM	3886	OG1	THR	B	73	8.916	47.207	66.465	1.00	16.29	O
ATOM	3887	CG2	THR	B	73	10.544	48.898	67.057	1.00	15.13	C
ATOM	3888	N	GLY	B	74	6.539	48.910	64.945	1.00	13.98	N
ATOM	3889	CA	GLY	B	74	5.340	48.284	64.380	1.00	16.86	C
ATOM	3890	C	GLY	B	74	5.321	46.765	64.493	1.00	17.40	C
ATOM	3891	O	GLY	B	74	4.301	46.150	64.810	1.00	17.27	O
ATOM	3892	N	ASN	B	75	6.461	46.151	64.234	1.00	15.16	N
ATOM	3893	CA	ASN	B	75	6.592	44.695	64.335	1.00	16.46	C
ATOM	3894	C	ASN	B	75	6.242	44.199	65.747	1.00	16.45	C
ATOM	3895	O	ASN	B	75	5.649	43.122	65.913	1.00	17.51	O
ATOM	3896	CB	ASN	B	75	8.022	44.289	63.984	1.00	16.27	C
ATOM	3897	CG	ASN	B	75	8.266	44.212	62.493	1.00	18.18	C
ATOM	3898	OD1	ASN	B	75	7.484	44.718	61.680	1.00	20.94	O
ATOM	3899	ND2	ASN	B	75	9.382	43.585	62.118	1.00	16.01	N
ATOM	3900	N	MET	B	76	6.619	44.960	66.771	1.00	17.70	N
ATOM	3901	CA	MET	B	76	6.293	44.580	68.155	1.00	18.55	C
ATOM	3902	C	MET	B	76	4.774	44.521	68.338	1.00	19.96	C
ATOM	3903	O	MET	B	76	4.238	43.600	68.938	1.00	19.24	O
ATOM	3904	CB	MET	B	76	6.836	45.606	69.168	1.00	19.44	C
ATOM	3905	CG	MET	B	76	8.264	45.442	69.533	1.00	18.09	C
ATOM	3906	SD	MET	B	76	8.743	46.510	70.929	1.00	17.81	S
ATOM	3907	CE	MET	B	76	10.521	46.264	70.815	1.00	17.35	C
ATOM	3908	N	ALA	B	77	4.080	45.518	67.821	1.00	17.66	N
ATOM	3909	CA	ALA	B	77	2.633	45.553	67.946	1.00	18.58	C
ATOM	3910	C	ALA	B	77	2.034	44.367	67.192	1.00	17.52	C
ATOM	3911	O	ALA	B	77	1.083	43.761	67.658	1.00	18.88	O
ATOM	3912	CB	ALA	B	77	2.093	46.860	67.390	1.00	18.13	C
ATOM	3913	N	VAL	B	78	2.624	44.016	66.051	1.00	17.78	N



ATOM	3914	CA	VAL	B	78	2.110	42.899	65.254	1.00	17.14	C
ATOM	3915	C	VAL	B	78	2.246	41.611	66.078	1.00	18.61	C
ATOM	3916	O	VAL	B	78	1.284	40.859	66.178	1.00	17.93	O
ATOM	3917	CB	VAL	B	78	2.865	42.755	63.913	1.00	14.85	C
ATOM	3918	CG1	VAL	B	78	2.537	41.443	63.223	1.00	15.32	C
ATOM	3919	CG2	VAL	B	78	2.480	43.912	62.990	1.00	16.00	C
ATOM	3920	N	GLN	B	79	3.417	41.367	66.673	1.00	19.97	N
ATOM	3921	CA	GLN	B	79	3.610	40.157	67.488	1.00	20.66	C
ATOM	3922	C	GLN	B	79	2.665	40.088	68.696	1.00	22.81	C
ATOM	3923	O	GLN	B	79	2.216	38.994	69.067	1.00	22.17	O
ATOM	3924	CB	GLN	B	79	5.063	40.040	67.967	1.00	19.32	C
ATOM	3925	CG	GLN	B	79	6.057	39.746	66.859	1.00	17.92	C
ATOM	3926	CD	GLN	B	79	5.594	38.645	65.957	1.00	22.02	C
ATOM	3927	OE1	GLN	B	79	4.900	37.716	66.401	1.00	24.53	O
ATOM	3928	NE2	GLN	B	79	5.981	38.719	64.677	1.00	20.38	N
ATOM	3929	N	GLN	B	80	2.357	41.243	69.297	1.00	21.57	N
ATOM	3930	CA	GLN	B	80	1.450	41.325	70.448	1.00	21.45	C
ATOM	3931	C	GLN	B	80	0.019	40.933	70.014	1.00	23.59	C
ATOM	3932	O	GLN	B	80	-0.713	40.237	70.738	1.00	22.57	O
ATOM	3933	CB	GLN	B	80	1.462	42.763	71.045	1.00	18.16	C
ATOM	3934	CG	GLN	B	80	2.845	43.174	71.525	1.00	15.85	C
ATOM	3935	CD	GLN	B	80	2.944	44.638	71.978	1.00	15.51	C
ATOM	3936	OE1	GLN	B	80	2.029	45.444	71.793	1.00	13.55	O
ATOM	3937	NE2	GLN	B	80	4.083	44.975	72.577	1.00	16.16	N
ATOM	3938	N	VAL	B	81	-0.382	41.362	68.827	1.00	22.88	N
ATOM	3939	CA	VAL	B	81	-1.712	40.997	68.360	1.00	23.58	C
ATOM	3940	C	VAL	B	81	-1.731	39.534	67.892	1.00	25.94	C
ATOM	3941	O	VAL	B	81	-2.744	38.825	68.105	1.00	26.30	O
ATOM	3942	CB	VAL	B	81	-2.214	41.947	67.242	1.00	22.98	C
ATOM	3943	CG1	VAL	B	81	-3.569	41.482	66.702	1.00	24.11	C
ATOM	3944	CG2	VAL	B	81	-2.367	43.336	67.817	1.00	21.35	C
ATOM	3945	N	ARG	B	82	-0.642	39.079	67.274	1.00	24.11	N
ATOM	3946	CA	ARG	B	82	-0.559	37.681	66.827	1.00	26.14	C
ATOM	3947	C	ARG	B	82	-0.638	36.760	68.056	1.00	27.10	C
ATOM	3948	O	ARG	B	82	-1.231	35.683	67.997	1.00	26.49	O
ATOM	3949	CB	ARG	B	82	0.768	37.396	66.099	1.00	27.36	C
ATOM	3950	CG	ARG	B	82	0.982	35.923	65.726	1.00	27.62	C
ATOM	3951	CD	ARG	B	82	0.087	35.511	64.574	1.00	28.08	C
ATOM	3952	NE	ARG	B	82	0.607	35.997	63.297	1.00	28.62	N
ATOM	3953	CZ	ARG	B	82	0.069	35.721	62.110	1.00	29.69	C
ATOM	3954	NH1	ARG	B	82	-1.019	34.963	62.045	1.00	30.10	N
ATOM	3955	NH2	ARG	B	82	0.629	36.187	60.990	1.00	28.75	N
ATOM	3956	N	ALA	B	83	0.000	37.156	69.158	1.00	25.21	N
ATOM	3957	CA	ALA	B	83	-0.034	36.345	70.383	1.00	25.12	C
ATOM	3958	C	ALA	B	83	-1.368	36.399	71.111	1.00	24.66	C
ATOM	3959	O	ALA	B	83	-1.547	35.759	72.145	1.00	25.89	O
ATOM	3960	CB	ALA	B	83	1.047	36.758	71.298	1.00	24.32	C
ATOM	3961	N	GLY	B	84	-2.296	37.195	70.612	1.00	24.40	N
ATOM	3962	CA	GLY	B	84	-3.598	37.245	71.237	1.00	24.30	C
ATOM	3963	C	GLY	B	84	-3.991	38.484	72.023	1.00	26.39	C
ATOM	3964	O	GLY	B	84	-5.132	38.586	72.446	1.00	24.88	O
ATOM	3965	N	LEU	B	85	-3.082	39.442	72.216	1.00	24.02	N
ATOM	3966	CA	LEU	B	85	-3.448	40.620	72.983	1.00	23.63	C
ATOM	3967	C	LEU	B	85	-4.450	41.461	72.208	1.00	21.86	C
ATOM	3968	O	LEU	B	85	-4.519	41.399	70.980	1.00	25.14	O
ATOM	3969	CB	LEU	B	85	-2.179	41.414	73.363	1.00	21.67	C
ATOM	3970	CG	LEU	B	85	-1.178	40.579	74.176	1.00	22.23	C
ATOM	3971	CD1	LEU	B	85	0.084	41.365	74.457	1.00	20.67	C
ATOM	3972	CD2	LEU	B	85	-1.837	40.141	75.481	1.00	23.28	C
ATOM	3973	N	LYS	B	86	-5.236	42.255	72.900	1.00	22.34	N
ATOM	3974	CA	LYS	B	86	-6.238	43.030	72.199	1.00	23.47	C
ATOM	3975	C	LYS	B	86	-6.157	44.553	72.294	1.00	24.00	C
ATOM	3976	O	LYS	B	86	-7.118	45.268	71.965	1.00	23.33	O
ATOM	3977	CB	LYS	B	86	-7.626	42.527	72.617	1.00	29.28	C
ATOM	3978	CG	LYS	B	86	-7.878	41.093	72.132	1.00	30.69	C
ATOM	3979	CD	LYS	B	86	-9.287	40.654	72.456	1.00	33.69	C
ATOM	3980	CE	LYS	B	86	-9.541	39.218	71.998	1.00	34.61	C
ATOM	3981	NZ	LYS	B	86	-10.922	38.812	72.403	1.00	36.06	N
ATOM	3982	N	ALA	B	87	-5.008	45.037	72.754	1.00	22.03	N
ATOM	3983	CA	ALA	B	87	-4.743	46.469	72.840	1.00	21.78	C
ATOM	3984	C	ALA	B	87	-3.249	46.653	72.793	1.00	20.45	C
ATOM	3985	O	ALA	B	87	-2.480	45.731	73.128	1.00	19.75	O
ATOM	3986	CB	ALA	B	87	-5.301	47.066	74.140	1.00	22.14	C
ATOM	3987	N	ILE	B	88	-2.835	47.846	72.365	1.00	19.51	N
ATOM	3988	CA	ILE	B	88	-1.427	48.160	72.297	1.00	18.02	C
ATOM	3989	C	ILE	B	88	-1.197	49.369	73.187	1.00	17.95	C
ATOM	3990	O	ILE	B	88	-2.009	50.286	73.192	1.00	16.79	O
ATOM	3991	CB	ILE	B	88	-1.005	48.510	70.829	1.00	19.45	C
ATOM	3992	CG1	ILE	B	88	-1.352	47.318	69.902	1.00	20.29	C
ATOM	3993	CG2	ILE	B	88	0.479	48.848	70.773	1.00	17.13	C



ATOM	3994	CD1	ILE	B	88	-0.747	47.444	68.561	1.00	27.83	C
ATOM	3995	N	TYR	B	89	-0.115	49.358	73.959	1.00	17.67	N
ATOM	3996	CA	TYR	B	89	0.212	50.513	74.805	1.00	17.69	C
ATOM	3997	C	TYR	B	89	1.439	51.171	74.174	1.00	18.24	C
ATOM	3998	O	TYR	B	89	2.392	50.484	73.855	1.00	18.75	O
ATOM	3999	CB	TYR	B	89	0.551	50.124	76.260	1.00	15.93	C
ATOM	4000	CG	TYR	B	89	0.979	51.335	77.084	1.00	18.34	C
ATOM	4001	CD1	TYR	B	89	0.078	52.349	77.389	1.00	15.52	C
ATOM	4002	CD2	TYR	B	89	2.300	51.488	77.494	1.00	17.09	C
ATOM	4003	CE1	TYR	B	89	0.486	53.493	78.081	1.00	19.81	C
ATOM	4004	CE2	TYR	B	89	2.719	52.622	78.186	1.00	17.45	C
ATOM	4005	CZ	TYR	B	89	1.812	53.617	78.470	1.00	18.99	C
ATOM	4006	OH	TYR	B	89	2.227	54.737	79.115	1.00	17.37	O
ATOM	4007	N	LEU	B	90	1.412	52.495	74.010	1.00	17.34	N
ATOM	4008	CA	LEU	B	90	2.546	53.180	73.400	1.00	18.21	C
ATOM	4009	C	LEU	B	90	3.127	54.088	74.479	1.00	17.35	C
ATOM	4010	O	LEU	B	90	2.567	55.116	74.791	1.00	17.92	O
ATOM	4011	CB	LEU	B	90	2.062	53.943	72.184	1.00	19.31	C
ATOM	4012	CG	LEU	B	90	2.842	54.962	71.368	1.00	21.14	C
ATOM	4013	CD1	LEU	B	90	4.287	54.887	71.660	1.00	17.35	C
ATOM	4014	CD2	LEU	B	90	2.514	54.811	69.924	1.00	20.17	C
ATOM	4015	N	SER	B	91	4.228	53.623	75.050	1.00	16.67	N
ATOM	4016	CA	SER	B	91	4.985	54.249	76.133	1.00	17.91	C
ATOM	4017	C	SER	B	91	5.793	55.415	75.627	1.00	16.15	C
ATOM	4018	O	SER	B	91	6.511	55.251	74.654	1.00	14.04	O
ATOM	4019	CB	SER	B	91	5.979	53.236	76.703	1.00	18.06	C
ATOM	4020	OG	SER	B	91	6.821	53.854	77.658	1.00	18.52	O
ATOM	4021	N	GLY	B	92	5.675	56.562	76.295	1.00	16.24	N
ATOM	4022	CA	GLY	B	92	6.465	57.733	75.911	1.00	16.76	C
ATOM	4023	C	GLY	B	92	7.883	57.514	76.406	1.00	16.27	C
ATOM	4024	O	GLY	B	92	8.849	58.051	75.852	1.00	14.85	O
ATOM	4025	N	TRP	B	93	8.003	56.729	77.473	1.00	14.59	N
ATOM	4026	CA	TRP	B	93	9.304	56.386	78.038	1.00	14.43	C
ATOM	4027	C	TRP	B	93	10.102	55.626	76.965	1.00	15.78	C
ATOM	4028	O	TRP	B	93	11.288	55.884	76.759	1.00	12.97	O
ATOM	4029	CB	TRP	B	93	9.142	55.451	79.278	1.00	15.75	C
ATOM	4030	CG	TRP	B	93	10.432	55.150	80.054	1.00	15.61	C
ATOM	4031	CD1	TRP	B	93	10.759	55.642	81.292	1.00	16.56	C
ATOM	4032	CD2	TRP	B	93	11.562	54.305	79.655	1.00	16.22	C
ATOM	4033	NE1	TRP	B	93	11.984	55.168	81.682	1.00	16.73	N
ATOM	4034	CE2	TRP	B	93	12.507	54.357	80.708	1.00	15.55	C
ATOM	4035	CE3	TRP	B	93	11.858	53.533	78.525	1.00	16.58	C
ATOM	4036	CZ2	TRP	B	93	13.740	53.668	80.664	1.00	16.92	C
ATOM	4037	CZ3	TRP	B	93	13.105	52.832	78.476	1.00	17.95	C
ATOM	4038	CH2	TRP	B	93	14.019	52.916	79.545	1.00	16.51	C
ATOM	4039	N	GLN	B	94	9.469	54.654	76.302	1.00	14.32	N
ATOM	4040	CA	GLN	B	94	10.173	53.855	75.268	1.00	13.15	C
ATOM	4041	C	GLN	B	94	10.551	54.736	74.049	1.00	12.46	C
ATOM	4042	O	GLN	B	94	11.583	54.565	73.425	1.00	12.71	O
ATOM	4043	CB	GLN	B	94	9.279	52.706	74.816	1.00	13.62	C
ATOM	4044	CG	GLN	B	94	9.062	51.647	75.930	1.00	13.87	C
ATOM	4045	CD	GLN	B	94	8.341	50.391	75.411	1.00	15.30	C
ATOM	4046	OE1	GLN	B	94	7.521	50.472	74.490	1.00	17.93	O
ATOM	4047	NE2	GLN	B	94	8.640	49.257	76.001	1.00	11.47	N
ATOM	4048	N	VAL	B	95	9.689	55.687	73.739	1.00	11.09	N
ATOM	4049	CA	VAL	B	95	9.911	56.594	72.631	1.00	10.71	C
ATOM	4050	C	VAL	B	95	11.149	57.449	72.961	1.00	11.03	C
ATOM	4051	O	VAL	B	95	12.023	57.608	72.127	1.00	11.89	O
ATOM	4052	CB	VAL	B	95	8.644	57.445	72.406	1.00	12.56	C
ATOM	4053	CG1	VAL	B	95	8.962	58.751	71.604	1.00	11.41	C
ATOM	4054	CG2	VAL	B	95	7.658	56.574	71.605	1.00	9.65	C
ATOM	4055	N	ALA	B	96	11.236	57.932	74.188	1.00	13.04	N
ATOM	4056	CA	ALA	B	96	12.390	58.720	74.628	1.00	12.49	C
ATOM	4057	C	ALA	B	96	13.648	57.855	74.536	1.00	13.58	C
ATOM	4058	O	ALA	B	96	14.689	58.294	74.007	1.00	14.79	O
ATOM	4059	CB	ALA	B	96	12.199	59.193	76.072	1.00	9.38	C
ATOM	4060	N	GLY	B	97	13.581	56.634	75.075	1.00	12.04	N
ATOM	4061	CA	GLY	B	97	14.777	55.787	75.037	1.00	14.28	C
ATOM	4062	C	GLY	B	97	15.202	55.203	73.694	1.00	13.03	C
ATOM	4063	O	GLY	B	97	16.391	54.973	73.475	1.00	11.51	O
ATOM	4064	N	ASP	B	98	14.287	55.013	72.744	1.00	10.59	N
ATOM	4065	CA	ASP	B	98	14.696	54.339	71.511	1.00	14.52	C
ATOM	4066	C	ASP	B	98	13.828	54.568	70.257	1.00	11.84	C
ATOM	4067	O	ASP	B	98	13.976	53.870	69.261	1.00	12.42	O
ATOM	4068	CB	ASP	B	98	14.759	52.829	71.850	1.00	13.58	C
ATOM	4069	CG	ASP	B	98	15.645	52.019	70.922	1.00	15.19	C
ATOM	4070	OD1	ASP	B	98	16.611	52.534	70.350	1.00	17.32	O
ATOM	4071	OD2	ASP	B	98	15.386	50.790	70.797	1.00	18.17	O
ATOM	4072	N	ALA	B	99	12.905	55.528	70.279	1.00	12.00	N
ATOM	4073	CA	ALA	B	99	12.109	55.682	69.084	1.00	12.02	C



ATOM	4074	C	ALA	B	99	11.526	57.073	68.981	1.00	13.23	C
ATOM	4075	O	ALA	B	99	10.319	57.208	68.798	1.00	13.63	O
ATOM	4076	CB	ALA	B	99	10.984	54.603	69.040	1.00	10.69	C
ATOM	4077	N	ASN	B	100	12.380	58.106	69.087	1.00	12.44	N
ATOM	4078	CA	ASN	B	100	11.871	59.490	68.977	1.00	11.54	C
ATOM	4079	C	ASN	B	100	12.519	60.255	67.808	1.00	13.97	C
ATOM	4080	O	ASN	B	100	13.555	59.892	67.304	1.00	12.25	O
ATOM	4081	CB	ASN	B	100	12.006	60.266	70.311	1.00	13.36	C
ATOM	4082	CG	ASN	B	100	13.444	60.596	70.678	1.00	14.54	C
ATOM	4083	OD1	ASN	B	100	14.059	59.895	71.500	1.00	13.38	O
ATOM	4084	ND2	ASN	B	100	13.979	61.673	70.092	1.00	8.58	N
ATOM	4085	N	LEU	B	101	11.873	61.339	67.393	1.00	10.08	N
ATOM	4086	CA	LEU	B	101	12.277	62.069	66.199	1.00	12.82	C
ATOM	4087	C	LEU	B	101	13.604	62.841	66.246	1.00	11.43	C
ATOM	4088	O	LEU	B	101	14.034	63.308	65.220	1.00	11.25	O
ATOM	4089	CB	LEU	B	101	11.137	62.982	65.792	1.00	12.37	C
ATOM	4090	CG	LEU	B	101	10.129	62.576	64.705	1.00	22.28	C
ATOM	4091	CD1	LEU	B	101	10.197	61.126	64.303	1.00	18.92	C
ATOM	4092	CD2	LEU	B	101	8.749	63.035	65.128	1.00	16.81	C
ATOM	4093	N	SER	B	102	14.230	62.946	67.417	1.00	12.40	N
ATOM	4094	CA	SER	B	102	15.528	63.640	67.516	1.00	11.67	C
ATOM	4095	C	SER	B	102	16.638	62.667	67.155	1.00	13.44	C
ATOM	4096	O	SER	B	102	17.774	63.068	66.882	1.00	13.95	O
ATOM	4097	CB	SER	B	102	15.784	64.109	68.944	1.00	12.21	C
ATOM	4098	OG	SER	B	102	16.060	63.020	69.840	1.00	13.57	O
ATOM	4099	N	GLY	B	103	16.316	61.386	67.238	1.00	11.16	N
ATOM	4100	CA	GLY	B	103	17.302	60.368	66.962	1.00	11.75	C
ATOM	4101	C	GLY	B	103	18.131	60.079	68.199	1.00	10.81	C
ATOM	4102	O	GLY	B	103	19.007	59.242	68.140	1.00	14.63	O
ATOM	4103	N	HIS	B	104	17.891	60.774	69.306	1.00	12.14	N
ATOM	4104	CA	HIS	B	104	18.693	60.555	70.505	1.00	11.29	C
ATOM	4105	C	HIS	B	104	18.069	59.653	71.531	1.00	11.39	C
ATOM	4106	O	HIS	B	104	16.878	59.429	71.523	1.00	12.67	O
ATOM	4107	CB	HIS	B	104	19.031	61.918	71.164	1.00	11.91	C
ATOM	4108	CG	HIS	B	104	20.113	62.671	70.459	1.00	12.72	C
ATOM	4109	ND1	HIS	B	104	19.924	63.904	69.844	1.00	14.14	N
ATOM	4110	CD2	HIS	B	104	21.412	62.343	70.261	1.00	11.34	C
ATOM	4111	CE1	HIS	B	104	21.067	64.292	69.294	1.00	9.28	C
ATOM	4112	NE2	HIS	B	104	21.979	63.362	69.533	1.00	12.30	N
ATOM	4113	N	THR	B	105	18.907	59.100	72.406	1.00	12.10	N
ATOM	4114	CA	THR	B	105	18.439	58.				



ATOM	4154	OE1	GLN	B	109	14.838	65.196	83.784	1.00	22.82	O
ATOM	4155	NE2	GLN	B	109	16.010	63.401	83.035	1.00	23.45	N
ATOM	4156	N	SER	B	110	10.332	64.356	78.982	1.00	13.70	N
ATOM	4157	CA	SER	B	110	9.761	65.149	77.918	1.00	15.26	C
ATOM	4158	C	SER	B	110	10.822	65.935	77.126	1.00	14.36	C
ATOM	4159	O	SER	B	110	10.642	67.114	76.777	1.00	14.01	O
ATOM	4160	CB	SER	B	110	8.682	66.095	78.495	1.00	16.72	C
ATOM	4161	OG	SER	B	110	7.524	65.336	78.775	1.00	17.85	O
ATOM	4162	N	LEU	B	111	11.882	65.253	76.746	1.00	12.95	N
ATOM	4163	CA	LEU	B	111	12.962	65.927	76.024	1.00	12.89	C
ATOM	4164	C	LEU	B	111	12.855	65.857	74.508	1.00	11.87	C
ATOM	4165	O	LEU	B	111	13.395	66.713	73.791	1.00	10.18	O
ATOM	4166	CB	LEU	B	111	14.306	65.300	76.455	1.00	12.57	C
ATOM	4167	CG	LEU	B	111	14.767	65.502	77.892	1.00	15.95	C
ATOM	4168	CD1	LEU	B	111	15.998	64.628	78.112	1.00	15.00	C
ATOM	4169	CD2	LEU	B	111	15.156	66.975	78.133	1.00	20.62	C
ATOM	4170	N	TYR	B	112	12.164	64.837	74.011	1.00	12.07	N
ATOM	4171	CA	TYR	B	112	12.016	64.626	72.581	1.00	12.46	C
ATOM	4172	C	TYR	B	112	10.950	65.519	71.922	1.00	12.09	C
ATOM	4173	O	TYR	B	112	10.118	66.096	72.642	1.00	12.14	O
ATOM	4174	CB	TYR	B	112	11.730	63.128	72.313	1.00	12.91	C
ATOM	4175	CG	TYR	B	112	10.452	62.611	72.935	1.00	13.52	C
ATOM	4176	CD1	TYR	B	112	9.232	62.862	72.328	1.00	12.05	C
ATOM	4177	CD2	TYR	B	112	10.473	61.833	74.132	1.00	15.36	C
ATOM	4178	CE1	TYR	B	112	8.026	62.355	72.884	1.00	14.66	C
ATOM	4179	CE2	TYR	B	112	9.262	61.324	74.699	1.00	13.73	C
ATOM	4180	CZ	TYR	B	112	8.052	61.608	74.047	1.00	13.77	C
ATOM	4181	OH	TYR	B	112	6.868	61.171	74.584	1.00	13.53	O
ATOM	4182	N	PRO	B	113	10.977	65.650	70.568	1.00	11.91	N
ATOM	4183	CA	PRO	B	113	10.030	66.471	69.799	1.00	12.11	C
ATOM	4184	C	PRO	B	113	8.581	66.004	70.014	1.00	12.68	C
ATOM	4185	O	PRO	B	113	8.297	64.801	69.946	1.00	11.01	O
ATOM	4186	CB	PRO	B	113	10.486	66.321	68.365	1.00	11.88	C
ATOM	4187	CG	PRO	B	113	11.989	66.042	68.499	1.00	13.85	C
ATOM	4188	CD	PRO	B	113	12.049	65.120	69.687	1.00	11.65	C
ATOM	4189	N	ALA	B	114	7.699	66.960	70.274	1.00	13.56	N
ATOM	4190	CA	ALA	B	114	6.319	66.673	70.624	1.00	14.54	C
ATOM	4191	C	ALA	B	114	5.488	65.850	69.638	1.00	15.49	C
ATOM	4192	O	ALA	B	114	4.426	65.368	70.026	1.00	13.56	O
ATOM	4193	CB	ALA	B	114	5.582	67.996	70.983	1.00	16.02	C
ATOM	4194	N	ASN	B	115	5.950	65.700	68.390	1.00	15.34	N
ATOM	4195	CA	ASN	B	115	5.202	64.865	67.405	1.00	13.13	C
ATOM	4196	C	ASN	B	115	5.765	63.439	67.335	1.00	11.45	C
ATOM	4197	O	ASN	B	115	5.391	62.646	66.453	1.00	12.57	O
ATOM	4198	CB	ASN	B	115	5.184	65.505	66.004	1.00	12.58	C
ATOM	4199	CG	ASN	B	115	6.595	65.817	65.448	1.00	12.71	C
ATOM	4200	OD1	ASN	B	115	7.559	66.004	66.215	1.00	12.78	O
ATOM	4201	ND2	ASN	B	115	6.699	65.881	64.116	1.00	13.29	N
ATOM	4202	N	SER	B	116	6.626	63.077	68.301	1.00	11.30	N
ATOM	4203	CA	SER	B	116	7.203	61.740	68.256	1.00	12.08	C
ATOM	4204	C	SER	B	116	6.219	60.586	68.517	1.00	10.99	C
ATOM	4205	O	SER	B	116	6.220	59.600	67.769	1.00	13.67	O
ATOM	4206	CB	SER	B	116	8.381	61.592	69.232	1.00	12.16	C
ATOM	4207	OG	SER	B	116	9.507	62.423	68.858	1.00	14.51	O
ATOM	4208	N	VAL	B	117	5.424	60.682	69.566	1.00	11.31	N
ATOM	4209	CA	VAL	B	117	4.489	59.606	69.858	1.00	11.25	C
ATOM	4210	C	VAL	B	117	3.480	59.511	68.695	1.00	11.07	C
ATOM	4211	O	VAL	B	117	3.172	58.398	68.227	1.00	13.18	O
ATOM	4212	CB	VAL	B	117	3.848	59.803	71.246	1.00	10.83	C
ATOM	4213	CG1	VAL	B	117	2.638	58.801	71.404	1.00	11.08	C
ATOM	4214	CG2	VAL	B	117	4.888	59.527	72.325	1.00	9.77	C
ATOM	4215	N	PRO	B	118	2.938	60.641	68.205	1.00	11.94	N
ATOM	4216	CA	PRO	B	118	2.004	60.542	67.064	1.00	13.42	C
ATOM	4217	C	PRO	B	118	2.650	59.784	65.900	1.00	14.20	C
ATOM	4218	O	PRO	B	118	2.017	58.951	65.276	1.00	11.36	O
ATOM	4219	CB	PRO	B	118	1.762	62.003	66.661	1.00	11.56	C
ATOM	4220	CG	PRO	B	118	1.769	62.669	67.986	1.00	11.99	C
ATOM	4221	CD	PRO	B	118	2.896	61.993	68.787	1.00	11.60	C
ATOM	4222	N	GLN	B	119	3.918	60.069	65.575	1.00	13.47	N
ATOM	4223	CA	GLN	B	119	4.512	59.285	64.495	1.00	13.14	C
ATOM	4224	C	GLN	B	119	4.581	57.777	64.793	1.00	12.13	C
ATOM	4225	O	GLN	B	119	4.506	56.962	63.887	1.00	13.66	O
ATOM	4226	CB	GLN	B	119	5.895	59.812	64.159	1.00	17.67	C
ATOM	4227	CG	GLN	B	119	5.806	61.119	63.427	1.00	23.83	C
ATOM	4228	CD	GLN	B	119	5.147	60.947	62.077	1.00	27.30	C
ATOM	4229	OE1	GLN	B	119	3.940	61.217	61.907	1.00	32.20	O
ATOM	4230	NE2	GLN	B	119	5.921	60.469	61.102	1.00	30.22	N
ATOM	4231	N	VAL	B	120	4.750	57.386	66.049	1.00	12.27	N
ATOM	4232	CA	VAL	B	120	4.810	55.954	66.333	1.00	12.95	C
ATOM	4233	C	VAL	B	120	3.388	55.359	66.303	1.00	13.57	C



ATOM	4234	O	VAL B 120	3.186	54.173	65.997	1.00	14.04	O
ATOM	4235	CB	VAL B 120	5.503	55.672	67.710	1.00	12.89	C
ATOM	4236	CG1	VAL B 120	5.482	54.185	68.042	1.00	15.13	C
ATOM	4237	CG2	VAL B 120	6.942	56.144	67.646	1.00	15.25	C
ATOM	4238	N	VAL B 121	2.396	56.160	66.636	1.00	11.81	N
ATOM	4239	CA	VAL B 121	1.023	55.636	66.569	1.00	15.18	C
ATOM	4240	C	VAL B 121	0.747	55.343	65.095	1.00	13.87	C
ATOM	4241	O	VAL B 121	0.203	54.294	64.753	1.00	15.17	O
ATOM	4242	CB	VAL B 121	-0.011	56.687	67.031	1.00	13.19	C
ATOM	4243	CG1	VAL B 121	-1.464	56.215	66.671	1.00	14.94	C
ATOM	4244	CG2	VAL B 121	0.140	56.961	68.510	1.00	13.51	C
ATOM	4245	N	ARG B 122	1.128	56.272	64.212	1.00	12.27	N
ATOM	4246	CA	ARG B 122	0.862	56.075	62.793	1.00	12.43	C
ATOM	4247	C	ARG B 122	1.596	54.848	62.318	1.00	12.26	C
ATOM	4248	O	ARG B 122	1.051	54.058	61.507	1.00	11.58	O
ATOM	4249	CB	ARG B 122	1.338	57.281	61.973	1.00	9.55	C
ATOM	4250	CG	ARG B 122	1.126	57.222	60.481	1.00	10.62	C
ATOM	4251	CD	ARG B 122	-0.365	57.132	60.092	1.00	12.89	C
ATOM	4252	NE	ARG B 122	-0.816	55.761	59.860	1.00	13.32	N
ATOM	4253	CZ	ARG B 122	-2.036	55.443	59.419	1.00	16.50	C
ATOM	4254	NH1	ARG B 122	-2.927	56.413	59.201	1.00	17.21	N
ATOM	4255	NH2	ARG B 122	-2.340	54.168	59.125	1.00	15.28	N
ATOM	4256	N	ARG B 123	2.825	54.691	62.823	1.00	11.49	N
ATOM	4257	CA	ARG B 123	3.665	53.562	62.450	1.00	12.52	C
ATOM	4258	C	ARG B 123	3.037	52.216	62.877	1.00	15.31	C
ATOM	4259	O	ARG B 123	3.018	51.280	62.096	1.00	13.68	O
ATOM	4260	CB	ARG B 123	5.055	53.697	63.087	1.00	12.72	C
ATOM	4261	CG	ARG B 123	5.869	52.391	63.099	1.00	11.81	C
ATOM	4262	CD	ARG B 123	6.050	51.840	61.692	1.00	12.78	C
ATOM	4263	NE	ARG B 123	6.557	50.474	61.737	1.00	15.23	N
ATOM	4264	CZ	ARG B 123	6.351	49.566	60.795	1.00	14.99	C
ATOM	4265	NH1	ARG B 123	5.621	49.866	59.713	1.00	13.44	N
ATOM	4266	NH2	ARG B 123	6.921	48.363	60.926	1.00	15.88	N
ATOM	4267	N	ILE B 124	2.563	52.136	64.117	1.00	15.78	N
ATOM	4268	CA	ILE B 124	1.955	50.914	64.647	1.00	14.72	C
ATOM	4269	C	ILE B 124	0.732	50.619	63.832	1.00	14.52	C
ATOM	4270	O	ILE B 124	0.507	49.471	63.459	1.00	15.36	O
ATOM	4271	CB	ILE B 124	1.601	51.062	66.145	1.00	16.84	C
ATOM	4272	CG1	ILE B 124	2.871	50.955	66.984	1.00	15.68	C
ATOM	4273	CG2	ILE B 124	0.584	49.986	66.587	1.00	14.12	C
ATOM	4274	CD1	ILE B 124	2.651	51.321	68.435	1.00	12.84	C
ATOM	4275	N	ASN B 125	-0.059	51.637	63.529	1.00	12.69	N
ATOM	4276	CA	ASN B 125	-1.236	51.393	62.705	1.00	15.69	C
ATOM	4277	C	ASN B 125	-0.886	50.891	61.308	1.00	16.04	C
ATOM	4278	O	ASN B 125	-1.581	50.006	60.785	1.00	15.22	O
ATOM	4279	CB	ASN B 125	-2.134	52.643	62.618	1.00	14.55	C
ATOM	4280	CG	ASN B 125	-3.222	52.643	63.713	1.00	17.82	C
ATOM	4281	OD1	ASN B 125	-3.651	51.552	64.184	1.00	14.65	O
ATOM	4282	ND2	ASN B 125	-3.672	53.832	64.113	1.00	14.32	N
ATOM	4283	N	ASN B 126	0.190	51.421	60.706	1.00	12.15	N
ATOM	4284	CA	ASN B 126	0.615	50.961	59.373	1.00	13.52	C
ATOM	4285	C	ASN B 126	1.042	49.483	59.426	1.00	11.76	C
ATOM	4286	O	ASN B 126	0.800	48.719	58.491	1.00	14.35	O
ATOM	4287	CB	ASN B 126	1.827	51.775	58.837	1.00	12.84	C
ATOM	4288	CG	ASN B 126	1.455	53.210	58.475	1.00	12.53	C
ATOM	4289	OD1	ASN B 126	0.296	53.501	58.269	1.00	10.49	O
ATOM	4290	ND2	ASN B 126	2.462	54.112	58.369	1.00	10.01	N
ATOM	4291	N	ALA B 127	1.669	49.098	60.519	1.00	13.77	N
ATOM	4292	CA	ALA B 127	2.162	47.732	60.643	1.00	15.21	C
ATOM	4293	C	ALA B 127	1.008	46.769	60.818	1.00	16.39	C
ATOM	4294	O	ALA B 127	1.005	45.671	60.264	1.00	14.99	O
ATOM	4295	CB	ALA B 127	3.100	47.616	61.855	1.00	14.95	C
ATOM	4296	N	LEU B 128	0.060	47.186	61.632	1.00	15.51	N
ATOM	4297	CA	LEU B 128	-1.088	46.324	61.890	1.00	17.00	C
ATOM	4298	C	LEU B 128	-1.881	46.218	60.605	1.00	17.16	C
ATOM	4299	O	LEU B 128	-2.406	45.135	60.276	1.00	17.58	O
ATOM	4300	CB	LEU B 128	-1.922	46.908	63.024	1.00	17.15	C
ATOM	4301	CG	LEU B 128	-1.249	46.881	64.406	1.00	18.76	C
ATOM	4302	CD1	LEU B 128	-2.185	47.513	65.396	1.00	17.13	C
ATOM	4303	CD2	LEU B 128	-0.926	45.468	64.836	1.00	17.57	C
ATOM	4304	N	GLN B 129	-1.958	47.320	59.855	1.00	15.55	N
ATOM	4305	CA	GLN B 129	-2.668	47.306	58.577	1.00	16.99	C
ATOM	4306	C	GLN B 129	-2.010	46.357	57.565	1.00	17.68	C
ATOM	4307	O	GLN B 129	-2.710	45.644	56.814	1.00	14.61	O
ATOM	4308	CB	GLN B 129	-2.775	48.699	57.996	1.00	18.29	C
ATOM	4309	CG	GLN B 129	-3.804	49.568	58.664	1.00	19.06	C
ATOM	4310	CD	GLN B 129	-3.793	50.937	58.039	1.00	20.81	C
ATOM	4311	OE1	GLN B 129	-2.824	51.677	58.179	1.00	24.60	O
ATOM	4312	NE2	GLN B 129	-4.843	51.265	57.311	1.00	19.96	N
ATOM	4313	N	ARG B 130	-0.677	46.332	57.538	1.00	16.42	N



ATOM	4314	CA	ARG	B	130	0.030	45.398	56.657	1.00	16.48	C
ATOM	4315	C	ARG	B	130	-0.251	43.947	57.121	1.00	15.50	C
ATOM	4316	O	ARG	B	130	-0.479	43.057	56.290	1.00	16.29	O
ATOM	4317	CB	ARG	B	130	1.545	45.664	56.674	1.00	15.15	C
ATOM	4318	CG	ARG	B	130	2.322	44.881	55.592	1.00	15.82	C
ATOM	4319	CD	ARG	B	130	1.979	45.373	54.150	1.00	13.63	C
ATOM	4320	NE	ARG	B	130	2.695	46.641	53.886	1.00	15.22	N
ATOM	4321	CZ	ARG	B	130	2.216	47.660	53.175	1.00	15.51	C
ATOM	4322	NH1	ARG	B	130	0.996	47.614	52.647	1.00	13.60	N
ATOM	4323	NH2	ARG	B	130	3.008	48.720	52.926	1.00	13.20	N
ATOM	4324	N	ALA	B	131	-0.209	43.692	58.429	1.00	15.29	N
ATOM	4325	CA	ALA	B	131	-0.505	42.334	58.939	1.00	16.73	C
ATOM	4326	C	ALA	B	131	-1.928	41.959	58.514	1.00	18.88	C
ATOM	4327	O	ALA	B	131	-2.206	40.801	58.095	1.00	18.11	O
ATOM	4328	CB	ALA	B	131	-0.411	42.306	60.467	1.00	17.97	C
ATOM	4329	N	ASP	B	132	-2.829	42.940	58.625	1.00	18.50	N
ATOM	4330	CA	ASP	B	132	-4.227	42.727	58.271	1.00	19.33	C
ATOM	4331	C	ASP	B	132	-4.350	42.398	56.767	1.00	20.38	C
ATOM	4332	O	ASP	B	132	-5.047	41.453	56.402	1.00	18.35	O
ATOM	4333	CB	ASP	B	132	-5.048	43.968	58.650	1.00	20.86	C
ATOM	4334	CG	ASP	B	132	-6.482	43.870	58.223	1.00	23.61	C
ATOM	4335	OD1	ASP	B	132	-7.161	42.914	58.670	1.00	20.37	O
ATOM	4336	OD2	ASP	B	132	-6.933	44.745	57.450	1.00	24.92	O
ATOM	4337	N	GLN	B	133	-3.642	43.136	55.898	1.00	18.23	N
ATOM	4338	CA	GLN	B	133	-3.681	42.901	54.435	1.00	16.82	C
ATOM	4339	C	GLN	B	133	-3.117	41.548	54.085	1.00	19.12	C
ATOM	4340	O	GLN	B	133	-3.636	40.853	53.206	1.00	20.25	O
ATOM	4341	CB	GLN	B	133	-2.864	43.969	53.685	1.00	14.80	C
ATOM	4342	CG	GLN	B	133	-3.488	45.363	53.693	1.00	16.14	C
ATOM	4343	CD	GLN	B	133	-2.425	46.500	53.743	1.00	21.47	C
ATOM	4344	OE1	GLN	B	133	-2.766	47.681	53.896	1.00	21.78	O
ATOM	4345	NE2	GLN	B	133	-1.156	46.135	53.631	1.00	15.62	N
ATOM	4346	N	ILE	B	134	-2.070	41.157	54.801	1.00	19.03	N
ATOM	4347	CA	ILE	B	134	-1.414	39.881	54.545	1.00	21.91	C
ATOM	4348	C	ILE	B	134	-2.306	38.702	54.958	1.00	22.50	C
ATOM	4349	O	ILE	B	134	-2.401	37.705	54.219	1.00	23.48	O
ATOM	4350	CB	ILE	B	134	-0.068	39.775	55.294	1.00	20.00	C
ATOM	4351	CG1	ILE	B	134	0.928	40.793	54.748	1.00	19.45	C
ATOM	4352	CG2	ILE	B	134	0.526	38.386	55.103	1.00	19.70	C
ATOM	4353	CD1	ILE	B	134	2.214	40.814	55.556	1.00	20.32	C
ATOM	4354	N	ALA	B	135	-2.954	38.835	56.116	1.00	23.24	N
ATOM	4355	CA	ALA	B	135	-3.862	37.800	56.645	1.00	24.64	C
ATOM	4356	C	ALA	B	135	-4.993	37.572	55.652	1.00	26.35	C
ATOM	4357	O	ALA	B	135	-5.476	36.433	55.447	1.00	26.53	O
ATOM	4358	CB	ALA	B	135	-4.467	38.245	57.994	1.00	24.05	C
ATOM	4359	N	LYS	B	136	-5.442	38.655	55.035	1.00	25.41	N
ATOM	4360	CA	LYS	B	136	-6.520	38.523	54.087	1.00	27.96	C
ATOM	4361	C	LYS	B	136	-6.102	37.707	52.852	1.00	29.31	C
ATOM	4362	O	LYS	B	136	-6.828	36.764	52.454	1.00	29.28	O
ATOM	4363	CB	LYS	B	136	-7.052	39.899	53.677	1.00	27.14	C
ATOM	4364	CG	LYS	B	136	-8.294	39.832	52.787	1.00	29.09	C
ATOM	4365	CD	LYS	B	136	-8.808	41.219	52.449	1.00	28.15	C
ATOM	4366	CE	LYS	B	136	-10.140	41.184	51.722	1.00	26.90	C
ATOM	4367	NZ	LYS	B	136	-10.662	42.575	51.564	1.00	26.39	N
ATOM	4368	N	ILE	B	137	-4.951	38.016	52.252	1.00	26.54	N
ATOM	4369	CA	ILE	B	137	-4.570	37.267	51.076	1.00	26.97	C
ATOM	4370	C	ILE	B	137	-4.082	35.875	51.399	1.00	28.35	C
ATOM	4371	O	ILE	B	137	-3.966	35.060	50.500	1.00	27.10	O
ATOM	4372	CB	ILE	B	137	-3.469	37.962	50.225	1.00	26.94	C
ATOM	4373	CG1	ILE	B	137	-2.160	38.029	51.009	1.00	26.25	C
ATOM	4374	CG2	ILE	B	137	-3.945	39.353	49.783	1.00	24.41	C
ATOM	4375	CD1	ILE	B	137	-0.941	38.426	50.160	1.00	27.79	C
ATOM	4376	N	GLU	B	138	-3.779	35.592	52.664	1.00	27.92	N
ATOM	4377	CA	GLU	B	138	-3.317	34.253	53.022	1.00	28.33	C
ATOM	4378	C	GLU	B	138	-4.476	33.408	53.516	1.00	29.60	C
ATOM	4379	O	GLU	B	138	-4.296	32.216	53.810	1.00	29.91	O
ATOM	4380	CB	GLU	B	138	-2.216	34.295	54.116	1.00	28.92	C
ATOM	4381	CG	GLU	B	138	-0.959	35.094	53.741	1.00	26.89	C
ATOM	4382	CD	GLU	B	138	0.195	34.910	54.723	1.00	27.90	C
ATOM	4383	OE1	GLU	B	138	-0.039	34.737	55.937	1.00	26.99	O
ATOM	4384	OE2	GLU	B	138	1.366	34.957	54.290	1.00	29.81	O
ATOM	4385	N	GLY	B	139	-5.657	34.008	53.605	1.00	30.19	N
ATOM	4386	CA	GLY	B	139	-6.809	33.275	54.110	1.00	32.53	C
ATOM	4387	C	GLY	B	139	-6.644	32.923	55.589	1.00	34.29	C
ATOM	4388	O	GLY	B	139	-7.243	31.964	56.105	1.00	34.30	O
ATOM	4389	N	ASP	B	140	-5.813	33.699	56.280	1.00	34.40	N
ATOM	4390	CA	ASP	B	140	-5.566	33.477	57.687	1.00	34.31	C
ATOM	4391	C	ASP	B	140	-6.581	34.182	58.581	1.00	35.10	C
ATOM	4392	O	ASP	B	140	-6.643	35.414	58.629	1.00	34.47	O
ATOM	4393	CB	ASP	B	140	-4.148	33.926	58.027	1.00	35.55	C



ATOM	4394	CG	ASP	B	140	-3.909	33.981	59.496	1.00	36.12	C
ATOM	4395	OD1	ASP	B	140	-4.669	33.325	60.228	1.00	35.36	O
ATOM	4396	OD2	ASP	B	140	-2.963	34.669	59.917	1.00	36.83	O
ATOM	4397	N	THR	B	141	-7.380	33.384	59.286	1.00	34.32	N
ATOM	4398	CA	THR	B	141	-8.388	33.903	60.197	1.00	35.04	C
ATOM	4399	C	THR	B	141	-7.906	33.712	61.647	1.00	35.10	C
ATOM	4400	O	THR	B	141	-8.673	33.817	62.601	1.00	36.34	O
ATOM	4401	CB	THR	B	141	-9.727	33.175	59.995	1.00	36.75	C
ATOM	4402	OG1	THR	B	141	-9.593	31.816	60.417	1.00	35.83	O
ATOM	4403	CG2	THR	B	141	-10.109	33.174	58.541	1.00	35.00	C
ATOM	4404	N	SER	B	142	-6.620	33.441	61.790	1.00	35.32	N
ATOM	4405	CA	SER	B	142	-5.970	33.230	63.096	1.00	36.23	C
ATOM	4406	C	SER	B	142	-6.192	34.368	64.091	1.00	36.10	C
ATOM	4407	O	SER	B	142	-6.061	34.174	65.309	1.00	36.70	O
ATOM	4408	CB	SER	B	142	-4.461	33.066	62.892	1.00	36.81	C
ATOM	4409	OG	SER	B	142	-3.736	33.415	64.064	1.00	40.80	O
ATOM	4410	N	VAL	B	143	-6.519	35.547	63.569	1.00	33.68	N
ATOM	4411	CA	VAL	B	143	-6.714	36.744	64.383	1.00	32.39	C
ATOM	4412	C	VAL	B	143	-7.998	37.450	63.976	1.00	32.02	C
ATOM	4413	O	VAL	B	143	-8.211	37.762	62.811	1.00	31.71	O
ATOM	4414	CB	VAL	B	143	-5.510	37.726	64.201	1.00	31.72	C
ATOM	4415	CG1	VAL	B	143	-5.781	39.045	64.895	1.00	31.48	C
ATOM	4416	CG2	VAL	B	143	-4.232	37.077	64.724	1.00	33.24	C
ATOM	4417	N	GLU	B	144	-8.838	37.726	64.957	1.00	31.18	N
ATOM	4418	CA	GLU	B	144	-10.132	38.370	64.721	1.00	32.05	C
ATOM	4419	C	GLU	B	144	-10.067	39.835	64.316	1.00	30.28	C
ATOM	4420	O	GLU	B	144	-10.772	40.270	63.406	1.00	28.74	O
ATOM	4421	CB	GLU	B	144	-11.009	38.237	65.977	1.00	33.58	C
ATOM	4422	CG	GLU	B	144	-10.315	37.595	67.208	1.00	37.36	C
ATOM	4423	CD	GLU	B	144	-8.998	38.276	67.679	1.00	41.20	C
ATOM	4424	OE1	GLU	B	144	-8.854	39.542	67.632	1.00	40.80	O
ATOM	4425	OE2	GLU	B	144	-8.101	37.517	68.126	1.00	41.17	O
ATOM	4426	N	ASN	B	145	-9.232	40.605	65.009	1.00	29.02	N
ATOM	4427	CA	ASN	B	145	-9.101	42.029	64.696	1.00	27.44	C
ATOM	4428	C	ASN	B	145	-7.641	42.486	64.805	1.00	25.43	C
ATOM	4429	O	ASN	B	145	-7.111	42.668	65.900	1.00	25.14	O
ATOM	4430	CB	ASN	B	145	-9.968	42.853	65.633	1.00	26.93	C
ATOM	4431	CG	ASN	B	145	-9.689	44.345	65.515	1.00	27.19	C
ATOM	4432	OD1	ASN	B	145	-9.638	45.058	66.521	1.00	30.26	O
ATOM	4433	ND2	ASN	B	145	-9.509	44.819	64.300	1.00	25.46	N
ATOM	4434	N	TRP	B	146	-6.990	42.629	63.654	1.00	23.74	N
ATOM	4435	CA	TRP	B	146	-5.593	43.064	63.606	1.00	21.85	C
ATOM	4436	C	TRP	B	146	-5.390	44.509	64.072	1.00	21.94	C
ATOM	4437	O	TRP	B	146	-4.328	44.867	64.595	1.00	21.69	O
ATOM	4438	CB	TRP	B	146	-5.055	42.934	62.178	1.00	20.22	C
ATOM	4439	CG	TRP	B	146	-4.595	41.552	61.875	1.00	18.98	C
ATOM	4440	CD1	TRP	B	146	-5.254	40.616	61.125	1.00	19.82	C
ATOM	4441	CD2	TRP	B	146	-3.422	40.913	62.384	1.00	21.06	C
ATOM	4442	NE1	TRP	B	146	-4.563	39.419	61.143	1.00	22.23	N
ATOM	4443	CE2	TRP	B	146	-3.430	39.578	61.905	1.00	21.00	C
ATOM	4444	CE3	TRP	B	146	-2.361	41.334	63.207	1.00	20.07	C
ATOM	4445	CZ2	TRP	B	146	-2.420	38.665	62.218	1.00	23.62	C
ATOM	4446	CZ3	TRP	B	146	-1.348	40.404	63.531	1.00	24.23	C
ATOM	4447	CH2	TRP	B	146	-1.390	39.087	63.032	1.00	23.31	C
ATOM	4448	N	LEU	B	147	-6.398	45.335	63.852	1.00	19.40	N
ATOM	4449	CA	LEU	B	147	-6.299	46.732	64.226	1.00	21.01	C
ATOM	4450	C	LEU	B	147	-6.681	46.925	65.672	1.00	19.78	C
ATOM	4451	O	LEU	B	147	-7.708	47.525	65.985	1.00	21.62	O
ATOM	4452	CB	LEU	B	147	-7.185	47.571	63.313	1.00	19.97	C
ATOM	4453	CG	LEU	B	147	-6.513	47.720	61.937	1.00	21.53	C
ATOM	4454	CD1	LEU	B	147	-7.495	48.167	60.908	1.00	24.49	C
ATOM	4455	CD2	LEU	B	147	-5.385	48.742	62.057	1.00	19.61	C
ATOM	4456	N	ALA	B	148	-5.847	46.396	66.551	1.00	19.10	N
ATOM	4457	CA	ALA	B	148	-6.086	46.521	67.970	1.00	19.05	C
ATOM	4458	C	ALA	B	148	-5.994	48.006	68.367	1.00	20.38	C
ATOM	4459	O	ALA	B	148	-5.179	48.765	67.812	1.00	19.55	O
ATOM	4460	CB	ALA	B	148	-5.058	45.728	68.727	1.00	17.81	C
ATOM	4461	N	PRO	B	149	-6.819	48.437	69.344	1.00	18.99	N
ATOM	4462	CA	PRO	B	149	-6.779	49.833	69.781	1.00	19.70	C
ATOM	4463	C	PRO	B	149	-5.426	50.158	70.410	1.00	18.40	C
ATOM	4464	O	PRO	B	149	-4.804	49.328	71.108	1.00	16.75	O
ATOM	4465	CB	PRO	B	149	-7.926	49.927	70.798	1.00	19.79	C
ATOM	4466	CG	PRO	B	149	-8.011	48.542	71.339	1.00	19.75	C
ATOM	4467	CD	PRO	B	149	-7.782	47.656	70.138	1.00	20.05	C
ATOM	4468	N	ILE	B	150	-4.975	51.380	70.150	1.00	19.88	N
ATOM	4469	CA	ILE	B	150	-3.708	51.859	70.688	1.00	15.73	C
ATOM	4470	C	ILE	B	150	-3.963	52.911	71.758	1.00	16.43	C
ATOM	4471	O	ILE	B	150	-4.690	53.878	71.512	1.00	17.20	O
ATOM	4472	CB	ILE	B	150	-2.834	52.552	69.592	1.00	17.33	C
ATOM	4473	CG1	ILE	B	150	-2.571	51.616	68.422	1.00	14.74	C



ATOM	4474	CG2	ILE	B	150	-1.501	53.030	70.216	1.00	16.27	C
ATOM	4475	CD1	ILE	B	150	-1.910	52.351	67.206	1.00	14.47	C
ATOM	4476	N	VAL	B	151	-3.381	52.725	72.944	1.00	16.11	N
ATOM	4477	CA	VAL	B	151	-3.498	53.727	74.001	1.00	16.13	C
ATOM	4478	C	VAL	B	151	-2.084	54.335	74.050	1.00	15.64	C
ATOM	4479	O	VAL	B	151	-1.101	53.613	74.254	1.00	15.37	O
ATOM	4480	CB	VAL	B	151	-3.872	53.129	75.355	1.00	18.01	C
ATOM	4481	CG1	VAL	B	151	-3.690	54.187	76.451	1.00	15.79	C
ATOM	4482	CG2	VAL	B	151	-5.355	52.658	75.309	1.00	17.78	C
ATOM	4483	N	ALA	B	152	-2.015	55.641	73.848	1.00	16.98	N
ATOM	4484	CA	ALA	B	152	-0.724	56.354	73.767	1.00	17.18	C
ATOM	4485	C	ALA	B	152	-0.544	57.457	74.808	1.00	17.17	C
ATOM	4486	O	ALA	B	152	-1.510	58.060	75.292	1.00	17.20	O
ATOM	4487	CB	ALA	B	152	-0.522	56.906	72.332	1.00	16.18	C
ATOM	4488	N	ASP	B	153	0.729	57.676	75.124	1.00	16.58	N
ATOM	4489	CA	ASP	B	153	1.239	58.599	76.138	1.00	16.34	C
ATOM	4490	C	ASP	B	153	1.332	60.054	75.655	1.00	16.29	C
ATOM	4491	O	ASP	B	153	2.115	60.393	74.771	1.00	15.60	O
ATOM	4492	CB	ASP	B	153	2.611	58.049	76.529	1.00	14.70	C
ATOM	4493	CG	ASP	B	153	3.182	58.638	77.798	1.00	13.57	C
ATOM	4494	OD1	ASP	B	153	2.740	59.688	78.261	1.00	14.77	O
ATOM	4495	OD2	ASP	B	153	4.122	58.018	78.334	1.00	14.96	O
ATOM	4496	N	GLY	B	154	0.526	60.913	76.264	1.00	15.55	N
ATOM	4497	CA	GLY	B	154	0.518	62.314	75.929	1.00	16.21	C
ATOM	4498	C	GLY	B	154	1.352	63.088	76.943	1.00	15.88	C
ATOM	4499	O	GLY	B	154	1.386	64.329	76.916	1.00	16.58	O
ATOM	4500	N	GLU	B	155	2.019	62.338	77.818	1.00	16.75	N
ATOM	4501	CA	GLU	B	155	2.887	62.884	78.867	1.00	16.76	C
ATOM	4502	C	GLU	B	155	2.271	64.031	79.635	1.00	17.86	C
ATOM	4503	O	GLU	B	155	1.170	63.864	80.162	1.00	17.80	O
ATOM	4504	CB	GLU	B	155	4.249	63.241	78.249	1.00	18.28	C
ATOM	4505	CG	GLU	B	155	5.024	61.911	78.035	1.00	21.15	C
ATOM	4506	CD	GLU	B	155	6.475	62.028	77.572	1.00	24.64	C
ATOM	4507	OE1	GLU	B	155	7.061	63.134	77.536	1.00	25.81	O
ATOM	4508	OE2	GLU	B	155	7.031	60.964	77.247	1.00	23.68	O
ATOM	4509	N	ALA	B	156	2.952	65.176	79.739	1.00	17.53	N
ATOM	4510	CA	ALA	B	156	2.351	66.303	80.440	1.00	18.11	C
ATOM	4511	C	ALA	B	156	1.951	67.360	79.425	1.00	17.45	C
ATOM	4512	O	ALA	B	156	1.832	68.554	79.762	1.00	19.37	O
ATOM	4513	CB	ALA	B	156	3.304	66.873	81.472	1.00	18.29	C
ATOM	4514	N	GLY	B	157	1.767	66.923	78.171	1.00	14.77	N
ATOM	4515	CA	GLY	B	157	1.325	67.792	77.097	1.00	15.28	C
ATOM	4516	C	GLY	B	157	2.349	68.709	76.438	1.00	15.01	C
ATOM	4517	O	GLY	B	157	1.993	69.503	75.549	1.00	14.16	O
ATOM	4518	N	PHE	B	158	3.605	68.657	76.896	1.00	14.94	N
ATOM	4519	CA	PHE	B	158	4.644	69.463	76.255	1.00	15.41	C
ATOM	4520	C	PHE	B	158	4.398	70.995	76.262	1.00	16.55	C
ATOM	4521	O	PHE	B	158	4.813	71.726	75.338	1.00	15.46	O
ATOM	4522	CB	PHE	B	158	4.854	68.998	74.812	1.00	16.83	C
ATOM	4523	CG	PHE	B	158	5.398	67.605	74.702	1.00	17.11	C
ATOM	4524	CD1	PHE	B	158	6.774	67.370	74.760	1.00	17.39	C
ATOM	4525	CD2	PHE	B	158	4.546	66.522	74.636	1.00	16.23	C
ATOM	4526	CE1	PHE	B	158	7.282	66.053	74.765	1.00	19.89	C
ATOM	4527	CE2	PHE	B	158	5.051	65.214	74.637	1.00	17.17	C
ATOM	4528	CZ	PHE	B	158	6.424	64.997	74.704	1.00	16.49	C
ATOM	4529	N	GLY	B	159	3.744	71.472	77.308	1.00	19.56	N
ATOM	4530	CA	GLY	B	159	3.492	72.899	77.389	1.00	19.32	C
ATOM	4531	C	GLY	B	159	2.179	73.241	78.059	1.00	19.27	C
ATOM	4532	O	GLY	B	159	1.846	72.692	79.101	1.00	22.33	O
ATOM	4533	N	GLY	B	160	1.435	74.160	77.453	1.00	19.73	N
ATOM	4534	CA	GLY	B	160	0.165	74.561	78.028	1.00	20.80	C
ATOM	4535	C	GLY	B	160	-0.988	73.832	77.354	1.00	19.87	C
ATOM	4536	O	GLY	B	160	-0.799	72.858	76.645	1.00	18.85	O
ATOM	4537	N	ALA	B	161	-2.199	74.327	77.553	1.00	20.32	N
ATOM	4538	CA	ALA	B	161	-3.381	73.714	76.952	1.00	18.92	C
ATOM	4539	C	ALA	B	161	-3.348	73.616	75.427	1.00	17.92	C
ATOM	4540	O	ALA	B	161	-3.955	72.696	74.874	1.00	19.68	O
ATOM	4541	CB	ALA	B	161	-4.663	74.514	77.379	1.00	20.32	C
ATOM	4542	N	LEU	B	162	-2.700	74.561	74.750	1.00	16.15	N
ATOM	4543	CA	LEU	B	162	-2.660	74.536	73.294	1.00	18.42	C
ATOM	4544	C	LEU	B	162	-1.677	73.450	72.807	1.00	19.70	C
ATOM	4545	O	LEU	B	162	-1.867	72.897	71.728	1.00	20.32	O
ATOM	4546	CB	LEU	B	162	-2.259	75.888	72.715	1.00	18.24	C
ATOM	4547	CG	LEU	B	162	-3.170	77.092	73.050	1.00	20.37	C
ATOM	4548	CD1	LEU	B	162	-2.711	78.340	72.280	1.00	17.14	C
ATOM	4549	CD2	LEU	B	162	-4.606	76.769	72.663	1.00	20.07	C
ATOM	4550	N	ASN	B	163	-0.621	73.175	73.583	1.00	18.19	N
ATOM	4551	CA	ASN	B	163	0.327	72.123	73.171	1.00	16.74	C
ATOM	4552	C	ASN	B	163	-0.406	70.785	73.391	1.00	17.43	C
ATOM	4553	O	ASN	B	163	-0.233	69.810	72.647	1.00	15.24	O



ATOM	4554	CB	ASN	B	163	1.622	72.189	74.023	1.00	17.60	C
ATOM	4555	CG	ASN	B	163	2.460	73.470	73.771	1.00	16.91	C
ATOM	4556	OD1	ASN	B	163	3.253	73.544	72.820	1.00	19.34	O
ATOM	4557	ND2	ASN	B	163	2.280	74.473	74.626	1.00	15.42	N
ATOM	4558	N	VAL	B	164	-1.225	70.748	74.437	1.00	15.70	N
ATOM	4559	CA	VAL	B	164	-1.989	69.558	74.761	1.00	16.85	C
ATOM	4560	C	VAL	B	164	-2.933	69.360	73.587	1.00	16.90	C
ATOM	4561	O	VAL	B	164	-3.064	68.253	73.047	1.00	17.58	O
ATOM	4562	CB	VAL	B	164	-2.844	69.781	76.013	1.00	12.62	C
ATOM	4563	CG1	VAL	B	164	-3.919	68.681	76.085	1.00	15.86	C
ATOM	4564	CG2	VAL	B	164	-1.979	69.720	77.252	1.00	17.30	C
ATOM	4565	N	TYR	B	165	-3.575	70.444	73.184	1.00	16.70	N
ATOM	4566	CA	TYR	B	165	-4.530	70.352	72.083	1.00	18.84	C
ATOM	4567	C	TYR	B	165	-3.886	69.821	70.797	1.00	17.70	C
ATOM	4568	O	TYR	B	165	-4.429	68.939	70.138	1.00	17.37	O
ATOM	4569	CB	TYR	B	165	-5.166	71.710	71.826	1.00	16.41	C
ATOM	4570	CG	TYR	B	165	-6.243	71.680	70.762	1.00	20.16	C
ATOM	4571	CD1	TYR	B	165	-5.906	71.784	69.411	1.00	18.34	C
ATOM	4572	CD2	TYR	B	165	-7.600	71.485	71.107	1.00	15.79	C
ATOM	4573	CE1	TYR	B	165	-6.887	71.687	68.398	1.00	20.78	C
ATOM	4574	CE2	TYR	B	165	-8.595	71.398	70.110	1.00	18.71	C
ATOM	4575	CZ	TYR	B	165	-8.231	71.491	68.754	1.00	20.51	C
ATOM	4576	OH	TYR	B	165	-9.171	71.349	67.734	1.00	22.15	O
ATOM	4577	N	GLU	B	166	-2.728	70.355	70.427	1.00	19.08	N
ATOM	4578	CA	GLU	B	166	-2.092	69.881	69.206	1.00	17.60	C
ATOM	4579	C	GLU	B	166	-1.583	68.433	69.289	1.00	15.53	C
ATOM	4580	O	GLU	B	166	-1.570	67.723	68.284	1.00	15.87	O
ATOM	4581	CB	GLU	B	166	-0.962	70.823	68.808	1.00	18.12	C
ATOM	4582	CG	GLU	B	166	-1.447	72.153	68.226	1.00	18.36	C
ATOM	4583	CD	GLU	B	166	-2.311	71.965	67.011	1.00	20.05	C
ATOM	4584	OE1	GLU	B	166	-1.905	71.218	66.068	1.00	18.66	O
ATOM	4585	OE2	GLU	B	166	-3.397	72.582	66.993	1.00	19.27	O
ATOM	4586	N	LEU	B	167	-1.177	67.992	70.474	1.00	14.48	N
ATOM	4587	CA	LEU	B	167	-0.695	66.629	70.604	1.00	14.71	C
ATOM	4588	C	LEU	B	167	-1.908	65.695	70.437	1.00	16.05	C
ATOM	4589	O	LEU	B	167	-1.862	64.712	69.684	1.00	13.04	O
ATOM	4590	CB	LEU	B	167	-0.032	66.427	71.965	1.00	12.46	C
ATOM	4591	CG	LEU	B	167	0.470	65.048	72.306	1.00	13.18	C
ATOM	4592	CD1	LEU	B	167	1.231	64.446	71.081	1.00	13.94	C
ATOM	4593	CD2	LEU	B	167	1.367	65.149	73.538	1.00	13.74	C
ATOM	4594	N	GLN	B	168	-3.013	66.013	71.106	1.00	16.01	N
ATOM	4595	CA	GLN	B	168	-4.184	65.134	70.979	1.00	16.27	C
ATOM	4596	C	GLN	B	168	-4.632	65.040	69.526	1.00	15.28	C
ATOM	4597	O	GLN	B	168	-4.918	63.952	69.012	1.00	14.37	O
ATOM	4598	CB	GLN	B	168	-5.349	65.621	71.894	1.00	18.62	C
ATOM	4599	CG	GLN	B	168	-6.647	64.804	71.751	1.00	17.73	C
ATOM	4600	CD	GLN	B	168	-6.602	63.467	72.474	1.00	19.89	C
ATOM	4601	OE1	GLN	B	168	-5.624	62.723	72.400	1.00	19.91	O
ATOM	4602	NE2	GLN	B	168	-7.659	63.166	73.196	1.00	16.57	N
ATOM	4603	N	LYS	B	169	-4.728	66.179	68.863	1.00	13.65	N
ATOM	4604	CA	LYS	B	169	-5.135	66.217	67.476	1.00	15.13	C
ATOM	4605	C	LYS	B	169	-4.194	65.380	66.573	1.00	16.83	C
ATOM	4606	O	LYS	B	169	-4.642	64.660	65.697	1.00	16.63	O
ATOM	4607	CB	LYS	B	169	-5.174	67.657	67.013	1.00	16.17	C
ATOM	4608	CG	LYS	B	169	-5.364	67.874	65.480	1.00	15.73	C
ATOM	4609	CD	LYS	B	169	-5.421	69.342	65.094	1.00	20.02	C
ATOM	4610	CE	LYS	B	169	-5.459	69.530	63.578	1.00	22.01	C
ATOM	4611	NZ	LYS	B	169	-5.702	70.957	63.162	1.00	22.19	N
ATOM	4612	N	ALA	B	170	-2.893	65.479	66.802	1.00	13.48	N
ATOM	4613	CA	ALA	B	170	-1.949	64.693	66.001	1.00	14.51	C
ATOM	4614	C	ALA	B	170	-2.027	63.186	66.324	1.00	12.43	C
ATOM	4615	O	ALA	B	170	-1.825	62.349	65.418	1.00	14.32	O
ATOM	4616	CB	ALA	B	170	-0.527	65.193	66.235	1.00	15.57	C
ATOM	4617	N	LEU	B	171	-2.297	62.830	67.585	1.00	13.54	N
ATOM	4618	CA	LEU	B	171	-2.406	61.418	67.960	1.00	12.63	C
ATOM	4619	C	LEU	B	171	-3.626	60.852	67.203	1.00	14.08	C
ATOM	4620	O	LEU	B	171	-3.585	59.723	66.657	1.00	14.33	O
ATOM	4621	CB	LEU	B	171	-2.604	61.259	69.467	1.00	12.49	C
ATOM	4622	CG	LEU	B	171	-1.411	61.581	70.371	1.00	9.18	C
ATOM	4623	CD1	LEU	B	171	-1.876	61.689	71.799	1.00	12.90	C
ATOM	4624	CD2	LEU	B	171	-0.334	60.503	70.219	1.00	12.13	C
ATOM	4625	N	ILE	B	172	-4.705	61.650	67.164	1.00	18.59	N
ATOM	4626	CA	ILE	B	172	-5.934	61.256	66.467	1.00	18.13	C
ATOM	4627	C	ILE	B	172	-5.702	61.096	64.958	1.00	18.02	C
ATOM	4628	O	ILE	B	172	-6.098	60.096	64.364	1.00	17.91	O
ATOM	4629	CB	ILE	B	172	-7.076	62.268	66.763	1.00	18.25	C
ATOM	4630	CG1	ILE	B	172	-7.608	62.048	68.190	1.00	18.07	C
ATOM	4631	CG2	ILE	B	172	-8.229	62.108	65.725	1.00	17.07	C
ATOM	4632	CD1	ILE	B	172	-8.432	63.200	68.738	1.00	19.63	C
ATOM	4633	N	ALA	B	173	-5.018	62.051	64.342	1.00	17.38	N



ATOM	4634	CA	ALA	B	173	-4.741	61.982	62.915	1.00	17.24	C
ATOM	4635	C	ALA	B	173	-4.005	60.681	62.598	1.00	17.39	C
ATOM	4636	O	ALA	B	173	-4.229	60.074	61.542	1.00	18.08	O
ATOM	4637	CB	ALA	B	173	-3.897	63.230	62.463	1.00	19.11	C
ATOM	4638	N	ALA	B	174	-3.154	60.255	63.525	1.00	15.98	N
ATOM	4639	CA	ALA	B	174	-2.361	59.038	63.384	1.00	16.53	C
ATOM	4640	C	ALA	B	174	-3.135	57.756	63.682	1.00	16.33	C
ATOM	4641	O	ALA	B	174	-2.638	56.651	63.413	1.00	15.44	O
ATOM	4642	CB	ALA	B	174	-1.107	59.114	64.272	1.00	15.63	C
ATOM	4643	N	GLY	B	175	-4.317	57.903	64.293	1.00	15.36	N
ATOM	4644	CA	GLY	B	175	-5.174	56.765	64.585	1.00	14.31	C
ATOM	4645	C	GLY	B	175	-5.179	56.207	65.989	1.00	15.91	C
ATOM	4646	O	GLY	B	175	-5.377	55.010	66.175	1.00	17.12	O
ATOM	4647	N	VAL	B	176	-4.927	57.048	66.994	1.00	15.92	N
ATOM	4648	CA	VAL	B	176	-4.891	56.577	68.377	1.00	15.43	C
ATOM	4649	C	VAL	B	176	-6.339	56.294	68.869	1.00	17.01	C
ATOM	4650	O	VAL	B	176	-7.286	56.946	68.415	1.00	16.23	O
ATOM	4651	CB	VAL	B	176	-4.220	57.648	69.277	1.00	14.31	C
ATOM	4652	CG1	VAL	B	176	-5.243	58.655	69.776	1.00	14.32	C
ATOM	4653	CG2	VAL	B	176	-3.489	56.989	70.415	1.00	17.97	C
ATOM	4654	N	ALA	B	177	-6.492	55.356	69.805	1.00	18.23	N
ATOM	4655	CA	ALA	B	177	-7.823	55.033	70.357	1.00	19.09	C
ATOM	4656	C	ALA	B	177	-7.981	55.694	71.719	1.00	18.91	C
ATOM	4657	O	ALA	B	177	-9.077	56.072	72.113	1.00	20.33	O
ATOM	4658	CB	ALA	B	177	-8.005	53.524	70.495	1.00	19.58	C
ATOM	4659	N	GLY	B	178	-6.872	55.844	72.430	1.00	17.41	N
ATOM	4660	CA	GLY	B	178	-6.913	56.472	73.735	1.00	19.40	C
ATOM	4661	C	GLY	B	178	-5.595	57.182	74.070	1.00	19.66	C
ATOM	4662	O	GLY	B	178	-4.534	56.790	73.585	1.00	19.33	O
ATOM	4663	N	SER	B	179	-5.669	58.195	74.928	1.00	19.91	N
ATOM	4664	CA	SER	B	179	-4.481	58.935	75.298	1.00	19.13	C
ATOM	4665	C	SER	B	179	-4.491	59.265	76.786	1.00	19.26	C
ATOM	4666	O	SER	B	179	-5.555	59.528	77.360	1.00	20.05	O
ATOM	4667	CB	SER	B	179	-4.414	60.204	74.441	1.00	18.01	C
ATOM	4668	OG	SER	B	179	-5.503	61.090	74.660	1.00	17.71	O
ATOM	4669	N	HIS	B	180	-3.321	59.261	77.419	1.00	17.89	N
ATOM	4670	CA	HIS	B	180	-3.250	59.583	78.841	1.00	17.55	C
ATOM	4671	C	HIS	B	180	-2.467	60.874	79.104	1.00	17.19	C
ATOM	4672	O	HIS	B	180	-1.523	61.203	78.374	1.00	17.04	O
ATOM	4673	CB	HIS	B	180	-2.733	58.385	79.658	1.00	20.57	C
ATOM	4674	CG	HIS	B	180	-1.294	58.017	79.428	1.00	21.24	C
ATOM	4675	ND1	HIS	B	180	-0.911	56.801	78.886	1.00	20.43	N
ATOM	4676	CD2	HIS	B	180	-0.156	58.605	79.861	1.00	20.40	C
ATOM	4677	CE1	HIS	B	180	0.396	56.651	79.018	1.00	17.73	C
ATOM	4678	NE2	HIS	B	180	0.877	57.731	79.609	1.00	21.85	N
ATOM	4679	N	TRP	B	181	-2.884	61.617	80.131	1.00	17.06	N
ATOM	4680	CA	TRP	B	181	-2.330	62.935	80.420	1.00	16.42	C
ATOM	4681	C	TRP	B	181	-2.071	63.045	81.913	1.00	18.77	C
ATOM	4682	O	TRP	B	181	-2.963	62.769	82.725	1.00	17.05	O
ATOM	4683	CB	TRP	B	181	-3.359	64.001	79.989	1.00	16.65	C
ATOM	4684	CG	TRP	B	181	-3.817	63.804	78.585	1.00	17.16	C
ATOM	4685	CD1	TRP	B	181	-4.812	62.950	78.158	1.00	17.77	C
ATOM	4686	CD2	TRP	B	181	-3.206	64.325	77.398	1.00	16.32	C
ATOM	4687	NE1	TRP	B	181	-4.839	62.903	76.789	1.00	18.77	N
ATOM	4688	CE2	TRP	B	181	-3.865	63.735	76.294	1.00	17.29	C
ATOM	4689	CE3	TRP	B	181	-2.158	65.230	77.157	1.00	15.49	C
ATOM	4690	CZ2	TRP	B	181	-3.515	64.017	74.968	1.00	16.42	C
ATOM	4691	CZ3	TRP	B	181	-1.812	65.511	75.841	1.00	14.33	C
ATOM	4692	CH2	TRP	B	181	-2.491	64.905	74.759	1.00	17.58	C
ATOM	4693	N	GLU	B	182	-0.886	63.518	82.288	1.00	17.38	N
ATOM	4694	CA	GLU	B	182	-0.569	63.554	83.711	1.00	18.33	C
ATOM	4695	C	GLU	B	182	-0.408	64.951	84.291	1.00	17.75	C
ATOM	4696	O	GLU	B	182	-0.024	65.899	83.583	1.00	16.85	O
ATOM	4697	CB	GLU	B	182	0.696	62.736	83.958	1.00	17.99	C
ATOM	4698	CG	GLU	B	182	1.874	63.464	83.393	1.00	18.75	C
ATOM	4699	CD	GLU	B	182	2.884	62.538	82.746	1.00	23.34	C
ATOM	4700	OE1	GLU	B	182	2.587	61.328	82.542	1.00	23.02	O
ATOM	4701	OE2	GLU	B	182	3.993	63.043	82.436	1.00	23.24	O
ATOM	4702	N	ASP	B	183	-0.647	65.037	85.602	1.00	17.92	N
ATOM	4703	CA	ASP	B	183	-0.619	66.300	86.328	1.00	17.64	C
ATOM	4704	C	ASP	B	183	0.727	66.815	86.768	1.00	18.48	C
ATOM	4705	O	ASP	B	183	0.895	67.288	87.899	1.00	18.38	O
ATOM	4706	CB	ASP	B	183	-1.591	66.279	87.513	1.00	16.53	C
ATOM	4707	CG	ASP	B	183	-1.389	65.108	88.491	1.00	21.33	C
ATOM	4708	OD1	ASP	B	183	-0.395	64.319	88.390	1.00	18.70	O
ATOM	4709	OD2	ASP	B	183	-2.265	65.003	89.416	1.00	19.79	O
ATOM	4710	N	GLN	B	184	1.681	66.766	85.842	1.00	18.31	N
ATOM	4711	CA	GLN	B	184	3.034	67.252	86.131	1.00	17.15	C
ATOM	4712	C	GLN	B	184	3.326	68.504	85.309	1.00	17.26	C
ATOM	4713	O	GLN	B	184	2.684	68.747	84.300	1.00	17.24	O



ATOM	4714	CB	GLN	B	184	4.046	66.208	85.716	1.00	17.32	C
ATOM	4715	CG	GLN	B	184	4.007	64.888	86.515	1.00	18.19	C
ATOM	4716	CD	GLN	B	184	5.211	64.024	86.150	1.00	19.97	C
ATOM	4717	OE1	GLN	B	184	6.340	64.527	86.101	1.00	18.66	O
ATOM	4718	NE2	GLN	B	184	4.980	62.726	85.893	1.00	17.37	N
ATOM	4719	N	LEU	B	185	4.348	69.251	85.730	1.00	17.75	N
ATOM	4720	CA	LEU	B	185	4.826	70.462	85.013	1.00	18.03	C
ATOM	4721	C	LEU	B	185	5.584	69.947	83.795	1.00	19.04	C
ATOM	4722	O	LEU	B	185	6.563	69.235	83.986	1.00	18.00	O
ATOM	4723	CB	LEU	B	185	5.794	71.229	85.927	1.00	15.27	C
ATOM	4724	CG	LEU	B	185	6.499	72.438	85.292	1.00	17.68	C
ATOM	4725	CD1	LEU	B	185	5.405	73.431	84.807	1.00	15.98	C
ATOM	4726	CD2	LEU	B	185	7.485	73.106	86.324	1.00	17.99	C
ATOM	4727	N	ALA	B	186	5.190	70.311	82.560	1.00	19.41	N
ATOM	4728	CA	ALA	B	186	5.878	69.748	81.376	1.00	20.86	C
ATOM	4729	C	ALA	B	186	7.404	69.937	81.351	1.00	20.44	C
ATOM	4730	O	ALA	B	186	8.184	69.015	81.038	1.00	18.72	O
ATOM	4731	CB	ALA	B	186	5.260	70.302	80.060	1.00	19.26	C
ATOM	4732	N	SER	B	187	7.833	71.121	81.731	1.00	18.44	N
ATOM	4733	CA	SER	B	187	9.247	71.436	81.717	1.00	19.23	C
ATOM	4734	C	SER	B	187	10.092	70.653	82.729	1.00	20.64	C
ATOM	4735	O	SER	B	187	11.319	70.684	82.643	1.00	19.56	O
ATOM	4736	CB	SER	B	187	9.424	72.946	81.903	1.00	18.30	C
ATOM	4737	OG	SER	B	187	8.956	73.337	83.163	1.00	17.22	O
ATOM	4738	N	GLU	B	188	9.440	69.977	83.683	1.00	18.52	N
ATOM	4739	CA	GLU	B	188	10.146	69.149	84.669	1.00	19.69	C
ATOM	4740	C	GLU	B	188	9.554	67.732	84.677	1.00	18.46	C
ATOM	4741	O	GLU	B	188	9.741	66.980	85.642	1.00	16.19	O
ATOM	4742	CB	GLU	B	188	10.009	69.729	86.076	1.00	22.39	C
ATOM	4743	CG	GLU	B	188	10.708	71.063	86.295	1.00	24.71	C
ATOM	4744	CD	GLU	B	188	12.169	71.001	85.886	1.00	26.11	C
ATOM	4745	OE1	GLU	B	188	12.757	69.894	85.990	1.00	28.17	O
ATOM	4746	OE2	GLU	B	188	12.710	72.046	85.449	1.00	27.60	O
ATOM	4747	N	LYS	B	189	8.853	67.364	83.605	1.00	18.88	N
ATOM	4748	CA	LYS	B	189	8.212	66.032	83.540	1.00	18.64	C
ATOM	4749	C	LYS	B	189	9.164	64.897	83.883	1.00	20.25	C
ATOM	4750	O	LYS	B	189	10.330	64.899	83.448	1.00	16.65	O
ATOM	4751	CB	LYS	B	189	7.646	65.741	82.139	1.00	18.74	C
ATOM	4752	CG	LYS	B	189	6.892	64.381	81.981	1.00	20.96	C
ATOM	4753	CD	LYS	B	189	7.776	63.221	81.551	1.00	21.55	C
ATOM	4754	CE	LYS	B	189	6.967	62.013	81.006	1.00	21.10	C
ATOM	4755	NZ	LYS	B	189	6.082	61.323	82.010	1.00	21.67	N
ATOM	4756	N	LYS	B	190	8.644	63.909	84.606	1.00	17.82	N
ATOM	4757	CA	LYS	B	190	9.447	62.735	84.979	1.00	19.15	C
ATOM	4758	C	LYS	B	190	8.664	61.433	84.771	1.00	20.42	C
ATOM	4759	O	LYS	B	190	7.456	61.427	84.803	1.00	20.04	O
ATOM	4760	CB	LYS	B	190	9.787	62.749	86.469	1.00	18.74	C
ATOM	4761	CG	LYS	B	190	10.660	63.908	86.944	1.00	17.46	C
ATOM	4762	CD	LYS	B	190	12.009	63.843	86.299	1.00	15.96	C
ATOM	4763	CE	LYS	B	190	12.902	64.935	86.903	1.00	16.52	C
ATOM	4764	NZ	LYS	B	190	12.241	66.259	86.681	1.00	18.12	N
ATOM	4765	N	CYS	B	191	9.387	60.347	84.551	1.00	19.18	N
ATOM	4766	CA	CYS	B	191	8.784	59.007	84.544	1.00	17.53	C
ATOM	4767	C	CYS	B	191	8.117	58.953	85.953	1.00	18.61	C
ATOM	4768	O	CYS	B	191	8.636	59.544	86.898	1.00	17.70	O
ATOM	4769	CB	CYS	B	191	9.926	57.977	84.484	1.00	17.55	C
ATOM	4770	SG	CYS	B	191	9.558	56.289	85.158	1.00	18.35	S
ATOM	4771	N	GLY	B	192	6.971	58.275	86.094	1.00	20.25	N
ATOM	4772	CA	GLY	B	192	6.304	58.204	87.400	1.00	20.11	C
ATOM	4773	C	GLY	B	192	7.172	57.593	88.488	1.00	19.97	C
ATOM	4774	O	GLY	B	192	6.992	57.840	89.671	1.00	20.51	O
ATOM	4775	N	HIS	B	193	8.160	56.817	88.084	1.00	19.68	N
ATOM	4776	CA	HIS	B	193	9.031	56.191	89.058	1.00	22.12	C
ATOM	4777	C	HIS	B	193	10.403	56.806	89.248	1.00	22.60	C
ATOM	4778	O	HIS	B	193	11.298	56.185	89.840	1.00	22.32	O
ATOM	4779	CB	HIS	B	193	9.091	54.699	88.757	1.00	22.07	C
ATOM	4780	CG	HIS	B	193	7.732	54.078	88.780	1.00	22.58	C
ATOM	4781	ND1	HIS	B	193	7.109	53.602	87.649	1.00	24.41	N
ATOM	4782	CD2	HIS	B	193	6.818	53.997	89.774	1.00	24.63	C
ATOM	4783	CE1	HIS	B	193	5.867	53.257	87.941	1.00	26.00	C
ATOM	4784	NE2	HIS	B	193	5.663	53.488	89.225	1.00	25.63	N
ATOM	4785	N	LEU	B	194	10.567	58.031	88.735	1.00	21.89	N
ATOM	4786	CA	LEU	B	194	11.815	58.774	88.910	1.00	21.12	C
ATOM	4787	C	LEU	B	194	11.499	59.852	89.968	1.00	20.84	C
ATOM	4788	O	LEU	B	194	10.334	60.147	90.226	1.00	21.78	O
ATOM	4789	CB	LEU	B	194	12.222	59.425	87.583	1.00	19.87	C
ATOM	4790	CG	LEU	B	194	12.893	58.512	86.561	1.00	20.66	C
ATOM	4791	CD1	LEU	B	194	13.091	59.303	85.262	1.00	19.60	C
ATOM	4792	CD2	LEU	B	194	14.259	58.043	87.065	1.00	18.20	C
ATOM	4793	N	GLY	B	195	12.512	60.409	90.599	1.00	19.39	N

4793 N GLY B 195 12.512 60.409 90.599 1.00 19.39 N



ATOM	4794	CA	GLY	B	195	12.267	61.447	91.588	1.00	21.29	C
ATOM	4795	C	GLY	B	195	12.248	62.795	90.864	1.00	19.35	C
ATOM	4796	O	GLY	B	195	12.336	62.824	89.623	1.00	20.29	O
ATOM	4797	N	GLY	B	196	12.096	63.885	91.612	1.00	19.97	N
ATOM	4798	CA	GLY	B	196	12.117	65.224	91.023	1.00	20.04	C
ATOM	4799	C	GLY	B	196	10.855	65.645	90.328	1.00	21.04	C
ATOM	4800	O	GLY	B	196	10.883	66.506	89.436	1.00	20.69	O
ATOM	4801	N	LYS	B	197	9.726	65.085	90.753	1.00	19.12	N
ATOM	4802	CA	LYS	B	197	8.475	65.419	90.104	1.00	18.68	C
ATOM	4803	C	LYS	B	197	7.861	66.705	90.653	1.00	18.12	C
ATOM	4804	O	LYS	B	197	7.943	66.969	91.855	1.00	19.31	O
ATOM	4805	CB	LYS	B	197	7.494	64.252	90.265	1.00	18.13	C
ATOM	4806	CG	LYS	B	197	8.052	62.953	89.689	1.00	18.48	C
ATOM	4807	CD	LYS	B	197	6.957	61.928	89.347	1.00	20.11	C
ATOM	4808	CE	LYS	B	197	6.231	61.456	90.601	1.00	20.05	C
ATOM	4809	NZ	LYS	B	197	5.319	60.309	90.255	1.00	20.19	N
ATOM	4810	N	VAL	B	198	7.243	67.479	89.774	1.00	18.02	N
ATOM	4811	CA	VAL	B	198	6.585	68.711	90.172	1.00	17.01	C
ATOM	4812	C	VAL	B	198	5.142	68.689	89.646	1.00	16.62	C
ATOM	4813	O	VAL	B	198	4.915	68.682	88.442	1.00	16.68	O
ATOM	4814	CB	VAL	B	198	7.308	69.944	89.594	1.00	18.29	C
ATOM	4815	CG1	VAL	B	198	6.618	71.228	90.075	1.00	18.61	C
ATOM	4816	CG2	VAL	B	198	8.774	69.922	90.033	1.00	20.00	C
ATOM	4817	N	LEU	B	199	4.168	68.665	90.556	1.00	16.92	N
ATOM	4818	CA	LEU	B	199	2.766	68.664	90.135	1.00	16.81	C
ATOM	4819	C	LEU	B	199	2.365	70.080	89.733	1.00	18.07	C
ATOM	4820	O	LEU	B	199	3.033	71.053	90.113	1.00	18.64	O
ATOM	4821	CB	LEU	B	199	1.842	68.244	91.311	1.00	15.78	C
ATOM	4822	CG	LEU	B	199	2.048	66.915	92.043	1.00	17.64	C
ATOM	4823	CD1	LEU	B	199	1.147	66.875	93.299	1.00	16.28	C
ATOM	4824	CD2	LEU	B	199	1.694	65.732	91.106	1.00	16.75	C
ATOM	4825	N	ILE	B	200	1.252	70.193	89.005	1.00	18.24	N
ATOM	4826	CA	ILE	B	200	0.692	71.487	88.654	1.00	19.79	C
ATOM	4827	C	ILE	B	200	-0.677	71.495	89.408	1.00	20.19	C
ATOM	4828	O	ILE	B	200	-1.136	70.433	89.861	1.00	19.18	O
ATOM	4829	CB	ILE	B	200	0.484	71.623	87.129	1.00	21.52	C
ATOM	4830	CG1	ILE	B	200	0.092	70.270	86.519	1.00	24.12	C
ATOM	4831	CG2	ILE	B	200	1.758	72.108	86.479	1.00	21.16	C
ATOM	4832	CD1	ILE	B	200	-1.290	70.206	86.002	1.00	22.13	C
ATOM	4833	N	PRO	B	201	-1.301	72.676	89.592	1.00	20.24	N
ATOM	4834	CA	PRO	B	201	-2.600	72.782	90.295	1.00	21.90	C
ATOM	4835	C	PRO	B	201	-3.686	71.860	89.717	1.00	22.27	C
ATOM	4836	O	PRO	B	201	-3.774	71.641	88.499	1.00	22.91	O
ATOM	4837	CB	PRO	B	201	-2.988	74.248	90.122	1.00	20.39	C
ATOM	4838	CG	PRO	B	201	-1.643	74.949	89.933	1.00	22.65	C
ATOM	4839	CD	PRO	B	201	-0.881	73.980	89.056	1.00	21.01	C
ATOM	4840	N	THR	B	202	-4.512	71.318	90.601	1.00	23.32	N
ATOM	4841	CA	THR	B	202	-5.597	70.417	90.214	1.00	21.12	C
ATOM	4842	C	THR	B	202	-6.377	71.013	89.031	1.00	21.48	C
ATOM	4843	O	THR	B	202	-6.659	70.332	88.044	1.00	22.26	O
ATOM	4844	CB	THR	B	202	-6.530	70.192	91.420	1.00	21.68	C
ATOM	4845	OG1	THR	B	202	-5.860	69.347	92.364	1.00	21.41	O
ATOM	4846	CG2	THR	B	202	-7.869	69.544	91.008	1.00	21.55	C
ATOM	4847	N	GLN	B	203	-6.684	72.296	89.099	1.00	21.13	N
ATOM	4848	CA	GLN	B	203	-7.449	72.913	88.028	1.00	20.80	C
ATOM	4849	C	GLN	B	203	-6.721	72.928	86.702	1.00	21.73	C
ATOM	4850	O	GLN	B	203	-7.334	72.728	85.626	1.00	21.81	O
ATOM	4851	CB	GLN	B	203	-7.850	74.322	88.398	1.00	20.91	C
ATOM	4852	CG	GLN	B	203	-8.861	74.939	87.426	1.00	24.55	C
ATOM	4853	CD	GLN	B	203	-10.195	74.182	87.357	1.00	25.54	O
ATOM	4854	OE1	GLN	B	203	-10.702	73.682	88.361	1.00	27.02	C
ATOM	4855	NE2	GLN	B	203	-10.781	74.128	86.161	1.00	27.97	N
ATOM	4856	N	GLN	B	204	-5.418	73.173	86.753	1.00	19.67	N
ATOM	4857	CA	GLN	B	204	-4.658	73.175	85.521	1.00	20.33	C
ATOM	4858	C	GLN	B	204	-4.786	71.818	84.852	1.00	19.48	C
ATOM	4859	O	GLN	B	204	-4.965	71.745	83.648	1.00	21.67	O
ATOM	4860	CB	GLN	B	204	-3.181	73.498	85.804	1.00	19.54	C
ATOM	4861	CG	GLN	B	204	-2.346	73.705	84.563	1.00	19.20	C
ATOM	4862	CD	GLN	B	204	-0.988	74.334	84.893	1.00	20.90	C
ATOM	4863	OE1	GLN	B	204	-0.871	75.108	85.842	1.00	20.86	O
ATOM	4864	NE2	GLN	B	204	0.024	74.020	84.102	1.00	22.00	N
ATOM	4865	N	HIS	B	205	-4.718	70.733	85.617	1.00	19.80	N
ATOM	4866	CA	HIS	B	205	-4.849	69.446	84.958	1.00	21.60	C
ATOM	4867	C	HIS	B	205	-6.248	69.316	84.408	1.00	20.41	C
ATOM	4868	O	HIS	B	205	-6.427	68.717	83.379	1.00	20.37	O
ATOM	4869	CB	HIS	B	205	-4.534	68.232	85.846	1.00	19.73	C
ATOM	4870	CG	HIS	B	205	-4.113	67.036	85.035	1.00	20.80	C
ATOM	4871	ND1	HIS	B	205	-4.627	65.771	85.220	1.00	22.99	N
ATOM	4872	CD2	HIS	B	205	-3.288	66.949	83.967	1.00	19.83	C
ATOM	4873	CE1	HIS	B	205	-4.138	64.955	84.298	1.00	19.91	N



ATOM	4874	NE2	HIS	B	205	-3.328	65.647	83.522	1.00	22.41	N
ATOM	4875	N	ILE	B	206	-7.249	69.893	85.073	1.00	21.82	N
ATOM	4876	CA	ILE	B	206	-8.599	69.828	84.530	1.00	21.62	C
ATOM	4877	C	ILE	B	206	-8.614	70.587	83.173	1.00	22.05	C
ATOM	4878	O	ILE	B	206	-9.298	70.181	82.209	1.00	22.15	O
ATOM	4879	CB	ILE	B	206	-9.637	70.408	85.584	1.00	22.60	C
ATOM	4880	CG1	ILE	B	206	-9.799	69.402	86.724	1.00	24.14	C
ATOM	4881	CG2	ILE	B	206	-10.981	70.734	84.901	1.00	22.38	C
ATOM	4882	CD1	ILE	B	206	-10.566	69.926	87.946	1.00	24.82	C
ATOM	4883	N	ARG	B	207	-7.849	71.678	83.073	1.00	20.87	N
ATOM	4884	CA	ARG	B	207	-7.778	72.394	81.806	1.00	20.97	C
ATOM	4885	C	ARG	B	207	-7.147	71.481	80.722	1.00	20.54	C
ATOM	4886	O	ARG	B	207	-7.558	71.501	79.558	1.00	21.29	O
ATOM	4887	CB	ARG	B	207	-6.949	73.676	81.927	1.00	24.21	C
ATOM	4888	CG	ARG	B	207	-7.683	74.837	82.585	1.00	26.66	C
ATOM	4889	CD	ARG	B	207	-7.043	76.165	82.275	1.00	30.47	C
ATOM	4890	NE	ARG	B	207	-5.737	76.335	82.916	1.00	32.73	N
ATOM	4891	CZ	ARG	B	207	-5.532	76.533	84.217	1.00	32.94	C
ATOM	4892	NH1	ARG	B	207	-6.545	76.590	85.059	1.00	34.62	N
ATOM	4893	NH2	ARG	B	207	-4.300	76.692	84.681	1.00	32.65	N
ATOM	4894	N	THR	B	208	-6.190	70.661	81.132	1.00	18.96	N
ATOM	4895	CA	THR	B	208	-5.541	69.746	80.196	1.00	17.73	C
ATOM	4896	C	THR	B	208	-6.523	68.671	79.732	1.00	18.67	C
ATOM	4897	O	THR	B	208	-6.658	68.416	78.542	1.00	19.13	O
ATOM	4898	CB	THR	B	208	-4.354	69.090	80.872	1.00	19.53	C
ATOM	4899	OG1	THR	B	208	-3.329	70.080	81.034	1.00	19.28	O
ATOM	4900	CG2	THR	B	208	-3.882	67.863	80.073	1.00	18.42	C
ATOM	4901	N	LEU	B	209	-7.189	68.028	80.679	1.00	18.74	N
ATOM	4902	CA	LEU	B	209	-8.166	66.995	80.332	1.00	19.91	C
ATOM	4903	C	LEU	B	209	-9.285	67.556	79.446	1.00	20.66	C
ATOM	4904	O	LEU	B	209	-9.806	66.863	78.567	1.00	19.06	O
ATOM	4905	CB	LEU	B	209	-8.749	66.370	81.613	1.00	21.18	C
ATOM	4906	CG	LEU	B	209	-7.720	65.638	82.496	1.00	21.09	C
ATOM	4907	CD1	LEU	B	209	-8.388	65.160	83.804	1.00	20.86	C
ATOM	4908	CD2	LEU	B	209	-7.119	64.473	81.712	1.00	20.45	C
ATOM	4909	N	THR	B	210	-9.648	68.805	79.697	1.00	19.66	N
ATOM	4910	CA	THR	B	210	-10.673	69.526	78.958	1.00	20.11	C
ATOM	4911	C	THR	B	210	-10.206	69.788	77.520	1.00	19.97	C
ATOM	4912	O	THR	B	210	-10.936	69.559	76.547	1.00	16.93	O
ATOM	4913	CB	THR	B	210	-10.997	70.845	79.723	1.00	22.35	C
ATOM	4914	OG1	THR	B	210	-11.804	70.514	80.871	1.00	21.45	O
ATOM	4915	CG2	THR	B	210	-11.691	71.870	78.848	1.00	20.42	C
ATOM	4916	N	SER	B	211	-8.959	70.218	77.393	1.00	19.11	N
ATOM	4917	CA	SER	B	211	-8.357	70.482	76.090	1.00	18.79	C
ATOM	4918	C	SER	B	211	-8.259	69.196	75.249	1.00	17.23	C
ATOM	4919	O	SER	B	211	-8.436	69.216	74.028	1.00	19.67	O
ATOM	4920	CB	SER	B	211	-6.949	71.068	76.285	1.00	18.30	C
ATOM	4921	OG	SER	B	211	-6.385	71.473	75.023	1.00	19.68	O
ATOM	4922	N	ALA	B	212	-7.958	68.088	75.902	1.00	18.20	N
ATOM	4923	CA	ALA	B	212	-7.818	66.811	75.206	1.00	16.88	C
ATOM	4924	C	ALA	B	212	-9.197	66.326	74.694	1.00	20.29	C
ATOM	4925	O	ALA	B	212	-9.317	65.778	73.587	1.00	18.64	O
ATOM	4926	CB	ALA	B	212	-7.211	65.788	76.132	1.00	19.77	C
ATOM	4927	N	ARG	B	213	-10.233	66.503	75.506	1.00	19.12	N
ATOM	4928	CA	ARG	B	213	-11.550	66.089	75.057	1.00	21.51	C
ATOM	4929	C	ARG	B	213	-11.965	67.040	73.922	1.00	21.55	C
ATOM	4930	O	ARG	B	213	-12.595	66.617	72.936	1.00	24.16	O
ATOM	4931	CB	ARG	B	213	-12.584	66.157	76.195	1.00	23.68	C
ATOM	4932	CG	ARG	B	213	-13.992	65.679	75.768	1.00	23.66	C
ATOM	4933	CD	ARG	B	213	-14.069	64.193	75.776	1.00	25.72	C
ATOM	4934	NE	ARG	B	213	-13.953	63.722	77.163	1.00	28.56	N
ATOM	4935	CZ	ARG	B	213	-13.725	62.461	77.507	1.00	30.83	C
ATOM	4936	NH1	ARG	B	213	-13.583	61.502	76.562	1.00	26.40	N
ATOM	4937	NH2	ARG	B	213	-13.621	62.159	78.804	1.00	30.92	N
ATOM	4938	N	LEU	B	214	-11.605	68.314	74.043	1.00	22.39	N
ATOM	4939	CA	LEU	B	214	-11.991	69.277	73.020	1.00	21.13	C
ATOM	4940	C	LEU	B	214	-11.369	68.921	71.669	1.00	21.54	C
ATOM	4941	O	LEU	B	214	-12.048	68.927	70.646	1.00	20.91	O
ATOM	4942	CB	LEU	B	214	-11.597	70.682	73.413	1.00	19.49	C
ATOM	4943	CG	LEU	B	214	-11.949	71.754	72.382	1.00	20.34	C
ATOM	4944	CD1	LEU	B	214	-13.461	71.871	72.220	1.00	21.36	C
ATOM	4945	CD2	LEU	B	214	-11.370	73.069	72.815	1.00	21.96	C
ATOM	4946	N	ALA	B	215	-10.079	68.592	71.651	1.00	20.76	N
ATOM	4947	CA	ALA	B	215	-9.457	68.229	70.382	1.00	21.75	C
ATOM	4948	C	ALA	B	215	-10.168	66.986	69.826	1.00	18.26	C
ATOM	4949	O	ALA	B	215	-10.430	66.892	68.627	1.00	20.80	O
ATOM	4950	CB	ALA	B	215	-7.895	67.977	70.575	1.00	19.51	C
ATOM	4951	N	ALA	B	216	-10.488	66.028	70.691	1.00	21.45	N
ATOM	4952	CA	ALA	B	216	-11.213	64.820	70.267	1.00	20.97	C
ATOM	4953	C	ALA	B	216	-12.581	65.191	69.649	1.00	21.91	C



ATOM	4954	O	ALA	B	216	-12.945	64.681	68.582	1.00	21.11	O
ATOM	4955	CB	ALA	B	216	-11.410	63.856	71.456	1.00	19.94	C
ATOM	4956	N	ASP	B	217	-13.334	66.070	70.314	1.00	22.13	N
ATOM	4957	CA	ASP	B	217	-14.652	66.472	69.781	1.00	21.95	C
ATOM	4958	C	ASP	B	217	-14.503	67.234	68.460	1.00	22.63	C
ATOM	4959	O	ASP	B	217	-15.256	66.966	67.519	1.00	23.97	O
ATOM	4960	CB	ASP	B	217	-15.450	67.337	70.791	1.00	20.89	C
ATOM	4961	CG	ASP	B	217	-15.903	66.563	71.993	1.00	23.07	C
ATOM	4962	OD1	ASP	B	217	-16.059	65.329	71.898	1.00	24.34	O
ATOM	4963	OD2	ASP	B	217	-16.105	67.182	73.061	1.00	23.95	O
ATOM	4964	N	VAL	B	218	-13.551	68.167	68.358	1.00	20.94	N
ATOM	4965	CA	VAL	B	218	-13.381	68.904	67.103	1.00	20.62	C
ATOM	4966	C	VAL	B	218	-12.984	67.951	65.954	1.00	21.57	C
ATOM	4967	O	VAL	B	218	-13.314	68.192	64.775	1.00	23.63	O
ATOM	4968	CB	VAL	B	218	-12.313	70.030	67.228	1.00	19.81	C
ATOM	4969	CG1	VAL	B	218	-12.014	70.648	65.869	1.00	19.49	C
ATOM	4970	CG2	VAL	B	218	-12.783	71.079	68.193	1.00	20.99	C
ATOM	4971	N	ALA	B	219	-12.312	66.853	66.288	1.00	22.09	N
ATOM	4972	CA	ALA	B	219	-11.899	65.897	65.252	1.00	22.17	C
ATOM	4973	C	ALA	B	219	-12.990	64.825	65.078	1.00	23.47	C
ATOM	4974	O	ALA	B	219	-12.817	63.852	64.334	1.00	24.15	O
ATOM	4975	CB	ALA	B	219	-10.538	65.244	65.623	1.00	21.22	C
ATOM	4976	N	ASP	B	220	-14.106	64.995	65.785	1.00	24.39	N
ATOM	4977	CA	ASP	B	220	-15.241	64.083	65.648	1.00	23.63	C
ATOM	4978	C	ASP	B	220	-15.015	62.609	65.984	1.00	24.78	C
ATOM	4979	O	ASP	B	220	-15.625	61.723	65.363	1.00	24.22	O
ATOM	4980	CB	ASP	B	220	-15.787	64.199	64.223	1.00	26.09	C
ATOM	4981	CG	ASP	B	220	-17.224	63.689	64.088	1.00	28.37	C
ATOM	4982	OD1	ASP	B	220	-18.004	63.767	65.070	1.00	27.54	O
ATOM	4983	OD2	ASP	B	220	-17.566	63.222	62.978	1.00	31.49	O
ATOM	4984	N	VAL	B	221	-14.160	62.337	66.964	1.00	22.91	N
ATOM	4985	CA	VAL	B	221	-13.922	60.964	67.375	1.00	24.11	C
ATOM	4986	C	VAL	B	221	-14.026	60.843	68.892	1.00	22.78	C
ATOM	4987	O	VAL	B	221	-13.620	61.728	69.618	1.00	23.60	O
ATOM	4988	CB	VAL	B	221	-12.554	60.479	66.876	1.00	23.58	C
ATOM	4989	CG1	VAL	B	221	-12.575	60.417	65.351	1.00	23.03	C
ATOM	4990	CG2	VAL	B	221	-11.467	61.454	67.349	1.00	24.45	C
ATOM	4991	N	PRO	B	222	-14.587	59.723	69.380	1.00	22.05	N
ATOM	4992	CA	PRO	B	222	-14.798	59.408	70.803	1.00	21.07	C
ATOM	4993	C	PRO	B	222	-13.586	58.890	71.558	1.00	20.02	C
ATOM	4994	O	PRO	B	222	-13.708	57.937	72.318	1.00	20.50	O
ATOM	4995	CB	PRO	B	222	-15.927	58.361	70.753	1.00	19.86	C
ATOM	4996	CG	PRO	B	222	-15.610	57.632	69.473	1.00	20.43	C
ATOM	4997	CD	PRO	B	222	-15.227	58.718	68.504	1.00	20.02	C
ATOM	4998	N	THR	B	223	-12.426	59.536	71.367	1.00	20.07	N
ATOM	4999	CA	THR	B	223	-11.176	59.106	72.016	1.00	20.73	C
ATOM	5000	C	THR	B	223	-11.288	58.846	73.537	1.00	20.86	C
ATOM	5001	O	THR	B	223	-11.930	59.601	74.276	1.00	20.68	O
ATOM	5002	CB	THR	B	223	-10.077	60.170	71.722	1.00	20.99	C
ATOM	5003	OG1	THR	B	223	-10.149	60.535	70.330	1.00	18.79	O
ATOM	5004	CG2	THR	B	223	-8.672	59.631	72.066	1.00	21.72	C
ATOM	5005	N	VAL	B	224	-10.675	57.762	74.009	1.00	20.82	N
ATOM	5006	CA	VAL	B	224	-10.708	57.443	75.437	1.00	20.41	C
ATOM	5007	C	VAL	B	224	-9.645	58.371	76.090	1.00	23.04	C
ATOM	5008	O	VAL	B	224	-8.456	58.340	75.704	1.00	23.13	O
ATOM	5009	CB	VAL	B	224	-10.387	55.912	75.668	1.00	19.63	C
ATOM	5010	CG1	VAL	B	224	-10.361	55.595	77.122	1.00	16.79	C
ATOM	5011	CG2	VAL	B	224	-11.481	55.053	75.023	1.00	16.84	C
ATOM	5012	N	VAL	B	225	-10.086	59.222	77.025	1.00	20.89	N
ATOM	5013	CA	VAL	B	225	-9.197	60.154	77.716	1.00	21.12	C
ATOM	5014	C	VAL	B	225	-8.828	59.614	79.097	1.00	20.88	C
ATOM	5015	O	VAL	B	225	-9.702	59.363	79.919	1.00	21.19	O
ATOM	5016	CB	VAL	B	225	-9.891	61.524	77.872	1.00	20.06	C
ATOM	5017	CG1	VAL	B	225	-9.041	62.468	78.751	1.00	20.28	C
ATOM	5018	CG2	VAL	B	225	-10.140	62.107	76.509	1.00	22.12	C
ATOM	5019	N	ILE	B	226	-7.527	59.459	79.360	1.00	20.78	N
ATOM	5020	CA	ILE	B	226	-7.065	58.930	80.616	1.00	19.59	C
ATOM	5021	C	ILE	B	226	-6.315	59.982	81.432	1.00	21.28	C
ATOM	5022	O	ILE	B	226	-5.396	60.649	80.911	1.00	18.97	O
ATOM	5023	CB	ILE	B	226	-6.170	57.715	80.356	1.00	18.22	C
ATOM	5024	CG1	ILE	B	226	-6.978	56.665	79.556	1.00	19.36	C
ATOM	5025	CG2	ILE	B	226	-5.656	57.147	81.654	1.00	19.71	C
ATOM	5026	CD1	ILE	B	226	-6.187	55.454	79.103	1.00	22.94	C
ATOM	5027	N	ALA	B	227	-6.712	60.131	82.705	1.00	20.61	N
ATOM	5028	CA	ALA	B	227	-6.069	61.116	83.589	1.00	22.28	C
ATOM	5029	C	ALA	B	227	-5.169	60.356	84.531	1.00	21.80	C
ATOM	5030	O	ALA	B	227	-5.590	59.383	85.162	1.00	22.80	O
ATOM	5031	CB	ALA	B	227	-7.115	61.907	84.395	1.00	22.49	C
ATOM	5032	N	ARG	B	228	-3.914	60.795	84.617	1.00	20.68	N
ATOM	5033	CA	ARG	B	228	-2.968	60.173	85.497	1.00	19.12	C

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852



ATOM	5034	C	ARG	B	228	-2.518	61.160	86.565	1.00	19.69	C
ATOM	5035	O	ARG	B	228	-2.271	62.308	86.242	1.00	23.24	O
ATOM	5036	CB	ARG	B	228	-1.739	59.725	84.706	1.00	18.62	C
ATOM	5037	CG	ARG	B	228	-0.497	59.542	85.534	1.00	19.12	C
ATOM	5038	CD	ARG	B	228	0.684	59.095	84.658	1.00	19.86	C
ATOM	5039	NE	ARG	B	228	1.965	59.459	85.267	1.00	20.88	N
ATOM	5040	CZ	ARG	B	228	3.160	59.075	84.827	1.00	21.67	C
ATOM	5041	NH1	ARG	B	228	3.273	58.290	83.780	1.00	20.38	N
ATOM	5042	NH2	ARG	B	228	4.263	59.529	85.406	1.00	19.46	N
ATOM	5043	N	THR	B	229	-2.408	60.723	87.823	1.00	18.99	N
ATOM	5044	CA	THR	B	229	-1.881	61.607	88.863	1.00	17.59	C
ATOM	5045	C	THR	B	229	-0.555	61.077	89.378	1.00	18.28	C
ATOM	5046	O	THR	B	229	-0.366	59.864	89.556	1.00	16.78	O
ATOM	5047	CB	THR	B	229	-2.814	61.818	90.060	1.00	18.84	C
ATOM	5048	OG1	THR	B	229	-2.142	62.678	91.015	1.00	17.28	O
ATOM	5049	CG2	THR	B	229	-3.134	60.494	90.739	1.00	19.16	C
ATOM	5050	N	ASP	B	230	0.382	62.001	89.578	1.00	17.94	N
ATOM	5051	CA	ASP	B	230	1.699	61.684	90.075	1.00	17.80	C
ATOM	5052	C	ASP	B	230	1.910	62.126	91.517	1.00	19.89	C
ATOM	5053	O	ASP	B	230	3.046	62.268	91.978	1.00	20.61	O
ATOM	5054	CB	ASP	B	230	2.732	62.344	89.179	1.00	17.48	C
ATOM	5055	CG	ASP	B	230	2.958	61.549	87.907	1.00	14.33	C
ATOM	5056	OD1	ASP	B	230	3.766	60.601	87.928	1.00	18.05	O
ATOM	5057	OD2	ASP	B	230	2.313	61.863	86.910	1.00	18.33	O
ATOM	5058	N	ALA	B	231	0.814	62.295	92.237	1.00	20.64	N
ATOM	5059	CA	ALA	B	231	0.876	62.789	93.604	1.00	21.30	C
ATOM	5060	C	ALA	B	231	1.293	61.829	94.706	1.00	21.94	C
ATOM	5061	O	ALA	B	231	1.538	62.254	95.842	1.00	20.96	O
ATOM	5062	CB	ALA	B	231	-0.478	63.446	93.947	1.00	21.34	C
ATOM	5063	N	GLU	B	232	1.370	60.544	94.399	1.00	21.06	N
ATOM	5064	CA	GLU	B	232	1.776	59.572	95.403	1.00	23.85	C
ATOM	5065	C	GLU	B	232	3.239	59.814	95.816	1.00	23.81	C
ATOM	5066	O	GLU	B	232	3.594	59.687	96.993	1.00	24.07	O
ATOM	5067	CB	GLU	B	232	1.593	58.172	94.820	1.00	25.71	C
ATOM	5068	CG	GLU	B	232	1.572	57.049	95.804	1.00	29.82	C
ATOM	5069	CD	GLU	B	232	2.911	56.781	96.393	1.00	33.45	C
ATOM	5070	OE1	GLU	B	232	3.923	56.704	95.636	1.00	33.93	O
ATOM	5071	OE2	GLU	B	232	2.955	56.636	97.631	1.00	36.25	O
ATOM	5072	N	ALA	B	233	4.088	60.183	94.858	1.00	21.53	N
ATOM	5073	CA	ALA	B	233	5.487	60.443	95.178	1.00	20.92	C
ATOM	5074	C	ALA	B	233	5.945	61.905	95.068	1.00	21.28	C
ATOM	5075	O	ALA	B	233	6.956	62.256	95.697	1.00	22.70	O
ATOM	5076	CB	ALA	B	233	6.412	59.585	94.301	1.00	18.97	C
ATOM	5077	N	ALA	B	234	5.262	62.727	94.274	1.00	19.50	N
ATOM	5078	CA	ALA	B	234	5.694	64.129	94.087	1.00	18.94	C
ATOM	5079	C	ALA	B	234	5.607	64.949	95.377	1.00	20.93	C
ATOM	5080	O	ALA	B	234	4.594	64.914	96.043	1.00	20.53	O
ATOM	5081	CB	ALA	B	234	4.861	64.784	93.006	1.00	17.54	C
ATOM	5082	N	THR	B	235	6.679	65.669	95.734	1.00	19.65	N
ATOM	5083	CA	THR	B	235	6.644	66.505	96.915	1.00	20.07	C
ATOM	5084	C	THR	B	235	6.757	67.991	96.561	1.00	20.69	C
ATOM	5085	O	THR	B	235	7.011	68.814	97.438	1.00	23.61	O
ATOM	5086	CB	THR	B	235	7.756	66.151	97.876	1.00	20.89	C
ATOM	5087	OG1	THR	B	235	9.022	66.339	97.213	1.00	22.22	O
ATOM	5088	CG2	THR	B	235	7.615	64.716	98.301	1.00	21.87	C
ATOM	5089	N	LEU	B	236	6.547	68.325	95.289	1.00	18.40	N
ATOM	5090	CA	LEU	B	236	6.598	69.709	94.822	1.00	19.26	C
ATOM	5091	C	LEU	B	236	5.382	70.025	93.962	1.00	19.89	C
ATOM	5092	O	LEU	B	236	4.838	69.139	93.292	1.00	20.51	O
ATOM	5093	CB	LEU	B	236	7.880	69.964	93.996	1.00	19.05	C
ATOM	5094	CG	LEU	B	236	9.200	69.825	94.767	1.00	19.18	C
ATOM	5095	CD1	LEU	B	236	10.381	69.678	93.815	1.00	19.55	C
ATOM	5096	CD2	LEU	B	236	9.336	70.997	95.711	1.00	21.24	C
ATOM	5097	N	ILE	B	237	4.950	71.282	93.984	1.00	19.32	N
ATOM	5098	CA	ILE	B	237	3.831	71.722	93.159	1.00	19.05	C
ATOM	5099	C	ILE	B	237	4.216	73.135	92.758	1.00	20.25	C
ATOM	5100	O	ILE	B	237	4.960	73.822	93.495	1.00	20.07	O
ATOM	5101	CB	ILE	B	237	2.473	71.669	93.924	1.00	20.23	C
ATOM	5102	CG1	ILE	B	237	1.323	72.077	92.990	1.00	17.33	C
ATOM	5103	CG2	ILE	B	237	2.557	72.527	95.183	1.00	17.29	C
ATOM	5104	CD1	ILE	B	237	-0.092	71.975	93.677	1.00	20.59	C
ATOM	5105	N	THR	B	238	3.762	73.564	91.583	1.00	19.00	N
ATOM	5106	CA	THR	B	238	4.152	74.872	91.050	1.00	17.98	C
ATOM	5107	C	THR	B	238	3.473	76.045	91.730	1.00	19.05	C
ATOM	5108	O	THR	B	238	4.014	77.142	91.736	1.00	19.46	O
ATOM	5109	CB	THR	B	238	3.828	74.991	89.554	1.00	18.91	C
ATOM	5110	OG1	THR	B	238	2.423	74.757	89.378	1.00	20.06	O
ATOM	5111	CG2	THR	B	238	4.622	73.949	88.694	1.00	17.97	C
ATOM	5112	N	SER	B	239	2.306	75.820	92.316	1.00	19.61	N
ATOM	5113	CA	SER	B	239	1.563	76.938	92.934	1.00	21.60	C



ATOM	5114	C	SER	B	239	0.542	76.395	93.940	1.00	22.72	C
ATOM	5115	O	SER	B	239	0.155	75.220	93.855	1.00	23.19	O
ATOM	5116	CB	SER	B	239	0.847	77.727	91.830	1.00	23.16	C
ATOM	5117	OG	SER	B	239	0.039	78.788	92.358	1.00	27.09	O
ATOM	5118	N	ASP	B	240	0.139	77.241	94.898	1.00	23.35	N
ATOM	5119	CA	ASP	B	240	-0.854	76.884	95.932	1.00	24.85	C
ATOM	5120	C	ASP	B	240	-2.176	77.589	95.630	1.00	25.85	C
ATOM	5121	O	ASP	B	240	-3.061	77.683	96.497	1.00	25.87	O
ATOM	5122	CB	ASP	B	240	-0.400	77.320	97.347	1.00	25.18	C
ATOM	5123	CG	ASP	B	240	-0.070	78.832	97.454	1.00	27.24	C
ATOM	5124	OD1	ASP	B	240	-0.111	79.575	96.455	1.00	24.85	O
ATOM	5125	OD2	ASP	B	240	0.270	79.279	98.572	1.00	28.72	O
ATOM	5126	N	VAL	B	241	-2.311	78.089	94.411	1.00	25.56	N
ATOM	5127	CA	VAL	B	241	-3.532	78.787	94.033	1.00	26.55	C
ATOM	5128	C	VAL	B	241	-4.835	78.011	94.163	1.00	26.52	C
ATOM	5129	O	VAL	B	241	-5.886	78.612	94.418	1.00	29.16	O
ATOM	5130	CB	VAL	B	241	-3.437	79.312	92.593	1.00	27.77	C
ATOM	5131	CG1	VAL	B	241	-3.375	78.130	91.602	1.00	28.13	C
ATOM	5132	CG2	VAL	B	241	-4.629	80.216	92.296	1.00	29.37	C
ATOM	5133	N	ASP	B	242	-4.784	76.688	94.037	1.00	26.72	N
ATOM	5134	CA	ASP	B	242	-5.992	75.866	94.088	1.00	26.15	C
ATOM	5135	C	ASP	B	242	-6.334	75.359	95.491	1.00	25.69	C
ATOM	5136	O	ASP	B	242	-5.578	74.613	96.101	1.00	26.42	O
ATOM	5137	CB	ASP	B	242	-5.825	74.681	93.123	1.00	26.95	C
ATOM	5138	CG	ASP	B	242	-7.155	73.977	92.788	1.00	26.31	C
ATOM	5139	OD1	ASP	B	242	-7.911	73.618	93.723	1.00	30.26	O
ATOM	5140	OD2	ASP	B	242	-7.437	73.765	91.589	1.00	24.25	O
ATOM	5141	N	GLU	B	243	-7.495	75.732	96.000	1.00	27.23	N
ATOM	5142	CA	GLU	B	243	-7.878	75.300	97.340	1.00	27.73	C
ATOM	5143	C	GLU	B	243	-7.922	73.790	97.561	1.00	26.86	C
ATOM	5144	O	GLU	B	243	-7.792	73.316	98.698	1.00	25.42	O
ATOM	5145	CB	GLU	B	243	-9.222	75.919	97.732	1.00	30.67	C
ATOM	5146	CG	GLU	B	243	-9.301	77.403	97.415	1.00	37.12	C
ATOM	5147	CD	GLU	B	243	-10.395	78.135	98.208	1.00	40.56	C
ATOM	5148	OE1	GLU	B	243	-11.361	77.472	98.671	1.00	41.79	O
ATOM	5149	OE2	GLU	B	243	-10.275	79.377	98.354	1.00	42.65	O
ATOM	5150	N	ARG	B	244	-8.105	73.014	96.500	1.00	26.19	N
ATOM	5151	CA	ARG	B	244	-8.143	71.563	96.705	1.00	25.39	C
ATOM	5152	C	ARG	B	244	-6.742	71.052	96.967	1.00	24.82	C
ATOM	5153	O	ARG	B	244	-6.574	69.957	97.518	1.00	23.80	O
ATOM	5154	CB	ARG	B	244	-8.705	70.840	95.479	1.00	26.29	C
ATOM	5155	CG	ARG	B	244	-10.186	71.069	95.258	1.00	25.50	C
ATOM	5156	CD	ARG	B	244	-10.588	70.742	93.839	1.00	25.40	C
ATOM	5157	NE	ARG	B	244	-10.124	71.763	92.904	1.00	26.67	N
ATOM	5158	CZ	ARG	B	244	-10.602	71.895	91.669	1.00	26.21	C
ATOM	5159	NH1	ARG	B	244	-11.559	71.075	91.248	1.00	25.16	N
ATOM	5160	NH2	ARG	B	244	-10.110	72.809	90.841	1.00	24.33	N
ATOM	5161	N	ASP	B	245	-5.745	71.858	96.589	1.00	23.71	N
ATOM	5162	CA	ASP	B	245	-4.332	71.499	96.759	1.00	24.42	C
ATOM	5163	C	ASP	B	245	-3.740	72.029	98.062	1.00	24.29	C
ATOM	5164	O	ASP	B	245	-2.827	71.423	98.634	1.00	24.56	O
ATOM	5165	CB	ASP	B	245	-3.477	72.043	95.605	1.00	23.64	C
ATOM	5166	CG	ASP	B	245	-3.862	71.453	94.256	1.00	22.09	C
ATOM	5167	OD1	ASP	B	245	-4.209	70.244	94.222	1.00	21.83	O
ATOM	5168	OD2	ASP	B	245	-3.791	72.202	93.243	1.00	22.64	O
ATOM	5169	N	GLN	B	246	-4.270	73.146	98.534	1.00	25.46	N
ATOM	5170	CA	GLN	B	246	-3.749	73.763	99.767	1.00	27.27	C
ATOM	5171	C	GLN	B	246	-3.666	72.889	101.008	1.00	28.10	C
ATOM	5172	O	GLN	B	246	-2.753	73.055	101.826	1.00	27.60	O
ATOM	5173	CB	GLN	B	246	-4.530	75.022	100.078	1.00	28.00	C
ATOM	5174	CG	GLN	B	246	-4.371	76.051	98.985	1.00	26.41	C
ATOM	5175	CD	GLN	B	246	-5.356	77.153	99.165	1.00	29.58	C
ATOM	5176	OE1	GLN	B	246	-6.181	77.086	100.079	1.00	31.19	O
ATOM	5177	NE2	GLN	B	246	-5.302	78.173	98.304	1.00	29.03	N
ATOM	5178	N	PRO	B	247	-4.603	71.945	101.170	1.00	26.92	N
ATOM	5179	CA	PRO	B	247	-4.537	71.097	102.355	1.00	27.57	C
ATOM	5180	C	PRO	B	247	-3.223	70.346	102.493	1.00	27.43	C
ATOM	5181	O	PRO	B	247	-2.885	69.927	103.592	1.00	25.62	O
ATOM	5182	CB	PRO	B	247	-5.724	70.149	102.171	1.00	28.05	C
ATOM	5183	CG	PRO	B	247	-6.710	71.000	101.421	1.00	27.99	C
ATOM	5184	CD	PRO	B	247	-5.852	71.707	100.411	1.00	28.11	C
ATOM	5185	N	PHE	B	248	-2.485	70.217	101.386	1.00	26.46	N
ATOM	5186	CA	PHE	B	248	-1.212	69.493	101.354	1.00	26.51	C
ATOM	5187	C	PHE	B	248	0.049	70.370	101.312	1.00	26.47	C
ATOM	5188	O	PHE	B	248	1.162	69.895	101.599	1.00	26.65	O
ATOM	5189	CB	PHE	B	248	-1.250	68.501	100.170	1.00	26.88	C
ATOM	5190	CG	PHE	B	248	-2.470	67.610	100.186	1.00	26.68	C
ATOM	5191	CD1	PHE	B	248	-2.569	66.560	101.101	1.00	28.14	C
ATOM	5192	CD2	PHE	B	248	-3.555	67.864	99.335	1.00	27.06	C
ATOM	5193	CE1	PHE	B	248	-3.743	65.760	101.178	1.00	27.23	C



ATOM	5194	CE2	PHE	B	248	-4.724	67.087	99.396	1.00	26.39	C
ATOM	5195	CZ	PHE	B	248	-4.818	66.031	100.320	1.00	26.86	C
ATOM	5196	N	ILE	B	249	-0.128	71.653	101.014	1.00	25.98	N
ATOM	5197	CA	ILE	B	249	0.983	72.593	100.943	1.00	28.34	C
ATOM	5198	C	ILE	B	249	1.623	72.753	102.334	1.00	28.97	C
ATOM	5199	O	ILE	B	249	0.921	72.968	103.318	1.00	28.69	O
ATOM	5200	CB	ILE	B	249	0.491	73.980	100.439	1.00	29.21	C
ATOM	5201	CG1	ILE	B	249	-0.157	73.841	99.064	1.00	31.59	C
ATOM	5202	CG2	ILE	B	249	1.635	74.964	100.405	1.00	30.69	C
ATOM	5203	CD1	ILE	B	249	0.766	73.430	97.980	1.00	31.55	C
ATOM	5204	N	THR	B	250	2.949	72.658	102.420	1.00	28.72	N
ATOM	5205	CA	THR	B	250	3.630	72.789	103.709	1.00	29.26	C
ATOM	5206	C	THR	B	250	4.064	74.204	103.978	1.00	28.31	C
ATOM	5207	O	THR	B	250	4.311	74.572	105.127	1.00	27.89	O
ATOM	5208	CB	THR	B	250	4.956	71.963	103.806	1.00	30.76	C
ATOM	5209	OG1	THR	B	250	6.031	72.688	103.169	1.00	32.06	O
ATOM	5210	CG2	THR	B	250	4.801	70.602	103.183	1.00	30.82	C
ATOM	5211	N	GLY	B	251	4.170	74.994	102.923	1.00	28.18	N
ATOM	5212	CA	GLY	B	251	4.645	76.354	103.091	1.00	29.84	C
ATOM	5213	C	GLY	B	251	6.091	76.517	102.618	1.00	29.19	C
ATOM	5214	O	GLY	B	251	6.452	77.601	102.183	1.00	30.81	O
ATOM	5215	N	GLU	B	252	6.913	75.464	102.701	1.00	27.95	N
ATOM	5216	CA	GLU	B	252	8.306	75.535	102.252	1.00	26.13	C
ATOM	5217	C	GLU	B	252	8.353	75.770	100.715	1.00	25.50	C
ATOM	5218	O	GLU	B	252	7.536	75.211	99.966	1.00	21.33	O
ATOM	5219	CB	GLU	B	252	9.044	74.228	102.548	1.00	27.85	C
ATOM	5220	CG	GLU	B	252	9.234	73.852	103.998	1.00	34.86	C
ATOM	5221	CD	GLU	B	252	10.386	72.820	104.180	1.00	40.61	C
ATOM	5222	OE1	GLU	B	252	11.482	72.980	103.550	1.00	40.22	O
ATOM	5223	OE2	GLU	B	252	10.207	71.849	104.964	1.00	42.69	O
ATOM	5224	N	ARG	B	253	9.336	76.565	100.276	1.00	23.74	N
ATOM	5225	CA	ARG	B	253	9.528	76.933	98.874	1.00	24.34	C
ATOM	5226	C	ARG	B	253	10.947	76.675	98.404	1.00	24.39	C
ATOM	5227	O	ARG	B	253	11.879	76.860	99.167	1.00	23.20	O
ATOM	5228	CB	ARG	B	253	9.288	78.419	98.704	1.00	27.54	C
ATOM	5229	CG	ARG	B	253	7.991	78.883	99.284	1.00	30.14	C
ATOM	5230	CD	ARG	B	253	6.913	78.477	98.341	1.00	34.03	C
ATOM	5231	NE	ARG	B	253	7.042	79.186	97.080	1.00	34.19	N
ATOM	5232	CZ	ARG	B	253	6.849	80.493	96.944	1.00	37.51	C
ATOM	5233	NH1	ARG	B	253	6.532	81.237	97.994	1.00	38.35	N
ATOM	5234	NH2	ARG	B	253	6.910	81.048	95.745	1.00	40.15	N
ATOM	5235	N	THR	B	254	11.117	76.306	97.138	1.00	21.33	N
ATOM	5236	CA	THR	B	254	12.449	76.035	96.591	1.00	21.39	C
ATOM	5237	C	THR	B	254	12.973	77.275	95.870	1.00	22.03	C
ATOM	5238	O	THR	B	254	12.225	78.234	95.651	1.00	20.81	O
ATOM	5239	CB	THR	B	254	12.407	74.857	95.586	1.00	20.89	C
ATOM	5240	OG1	THR	B	254	11.620	75.239	94.452	1.00	19.75	O
ATOM	5241	CG2	THR	B	254	11.766	73.611	96.252	1.00	21.54	C
ATOM	5242	N	ARG	B	255	14.238	77.252	95.474	1.00	24.33	N
ATOM	5243	CA	ARG	B	255	14.838	78.393	94.772	1.00	25.72	C
ATOM	5244	C	ARG	B	255	14.183	78.656	93.438	1.00	25.73	C
ATOM	5245	O	ARG	B	255	14.213	79.797	92.918	1.00	24.60	O
ATOM	5246	CB	ARG	B	255	16.328	78.167	94.549	1.00	30.62	C
ATOM	5247	CG	ARG	B	255	17.122	78.367	95.808	1.00	38.84	C
ATOM	5248	CD	ARG	B	255	18.624	78.483	95.520	1.00	44.10	C
ATOM	5249	NE	ARG	B	255	18.959	79.820	95.047	1.00	47.82	N
ATOM	5250	CZ	ARG	B	255	18.776	80.930	95.763	1.00	50.39	C
ATOM	5251	NH1	ARG	B	255	18.262	80.862	96.991	1.00	51.48	N
ATOM	5252	NH2	ARG	B	255	19.100	82.114	95.241	1.00	52.39	N
ATOM	5253	N	GLU	B	256	13.612	77.604	92.860	1.00	23.72	N
ATOM	5254	CA	GLU	B	256	12.930	77.742	91.573	1.00	23.37	C
ATOM	5255	C	GLU	B	256	11.547	78.363	91.788	1.00	23.01	C
ATOM	5256	O	GLU	B	256	10.881	78.753	90.829	1.00	22.81	O
ATOM	5257	CB	GLU	B	256	12.715	76.393	90.887	1.00	22.29	C
ATOM	5258	CG	GLU	B	256	13.970	75.638	90.503	1.00	24.15	C
ATOM	5259	CD	GLU	B	256	14.399	74.641	91.557	1.00	23.42	C
ATOM	5260	OE1	GLU	B	256	13.790	74.593	92.650	1.00	19.39	O
ATOM	5261	OE2	GLU	B	256	15.356	73.914	91.275	1.00	23.55	O
ATOM	5262	N	GLY	B	257	11.113	78.447	93.043	1.00	22.85	N
ATOM	5263	CA	GLY	B	257	9.803	79.010	93.314	1.00	22.61	C
ATOM	5264	C	GLY	B	257	8.726	77.952	93.491	1.00	23.40	C
ATOM	5265	O	GLY	B	257	7.543	78.285	93.603	1.00	24.95	O
ATOM	5266	N	PHE	B	258	9.107	76.680	93.518	1.00	20.07	N
ATOM	5267	CA	PHE	B	258	8.122	75.630	93.741	1.00	20.94	C
ATOM	5268	C	PHE	B	258	7.669	75.534	95.218	1.00	21.29	C
ATOM	5269	O	PHE	B	258	8.293	76.135	96.099	1.00	22.17	O
ATOM	5270	CB	PHE	B	258	8.683	74.269	93.291	1.00	19.11	C
ATOM	5271	CG	PHE	B	258	9.086	74.227	91.863	1.00	19.38	C
ATOM	5272	CD1	PHE	B	258	8.355	74.901	90.899	1.00	19.57	C
ATOM	5273	CD2	PHE	B	258	10.219	73.537	91.465	1.00	19.29	C



ATOM	5274	CE1	PHE	B	258	8.753	74.889	89.561	1.00	20.07	C
ATOM	5275	CE2	PHE	B	258	10.612	73.526	90.132	1.00	19.30	C
ATOM	5276	CZ	PHE	B	258	9.873	74.206	89.184	1.00	19.86	C
ATOM	5277	N	TYR	B	259	6.576	74.813	95.491	1.00	19.01	N
ATOM	5278	CA	TYR	B	259	6.105	74.646	96.888	1.00	18.63	C
ATOM	5279	C	TYR	B	259	6.209	73.198	97.296	1.00	20.22	C
ATOM	5280	O	TYR	B	259	5.942	72.307	96.480	1.00	20.28	O
ATOM	5281	CB	TYR	B	259	4.636	75.020	97.079	1.00	19.41	C
ATOM	5282	CG	TYR	B	259	4.260	76.457	96.807	1.00	20.53	C
ATOM	5283	CD1	TYR	B	259	4.390	76.995	95.540	1.00	20.21	C
ATOM	5284	CD2	TYR	B	259	3.839	77.302	97.849	1.00	21.94	C
ATOM	5285	CE1	TYR	B	259	4.126	78.349	95.290	1.00	23.42	C
ATOM	5286	CE2	TYR	B	259	3.576	78.667	97.606	1.00	23.14	C
ATOM	5287	CZ	TYR	B	259	3.725	79.174	96.322	1.00	22.75	C
ATOM	5288	OH	TYR	B	259	3.449	80.512	96.039	1.00	24.40	O
ATOM	5289	N	ARG	B	260	6.592	72.956	98.542	1.00	20.67	N
ATOM	5290	CA	ARG	B	260	6.651	71.591	99.025	1.00	22.80	C
ATOM	5291	C	ARG	B	260	5.217	71.218	99.322	1.00	23.09	C
ATOM	5292	O	ARG	B	260	4.417	72.074	99.732	1.00	22.33	O
ATOM	5293	CB	ARG	B	260	7.470	71.470	100.306	1.00	24.42	C
ATOM	5294	CG	ARG	B	260	8.954	71.444	100.056	1.00	22.67	C
ATOM	5295	CD	ARG	B	260	9.397	70.161	99.323	1.00	24.34	C
ATOM	5296	NE	ARG	B	260	10.816	70.271	99.015	1.00	21.96	N
ATOM	5297	CZ	ARG	B	260	11.464	69.554	98.104	1.00	26.48	C
ATOM	5298	NH1	ARG	B	260	10.827	68.621	97.375	1.00	24.29	N
ATOM	5299	NH2	ARG	B	260	12.752	69.824	97.872	1.00	24.34	N
ATOM	5300	N	THR	B	261	4.896	69.944	99.120	1.00	23.34	N
ATOM	5301	CA	THR	B	261	3.548	69.451	99.347	1.00	22.13	C
ATOM	5302	C	THR	B	261	3.637	68.013	99.871	1.00	23.58	C
ATOM	5303	O	THR	B	261	4.570	67.285	99.541	1.00	22.88	O
ATOM	5304	CB	THR	B	261	2.730	69.531	98.037	1.00	23.76	C
ATOM	5305	OG1	THR	B	261	1.365	69.177	98.301	1.00	23.37	O
ATOM	5306	CG2	THR	B	261	3.310	68.575	96.976	1.00	23.36	C
ATOM	5307	N	LYS	B	262	2.692	67.622	100.725	1.00	23.32	N
ATOM	5308	CA	LYS	B	262	2.682	66.290	101.304	1.00	26.81	C
ATOM	5309	C	LYS	B	262	2.171	65.261	100.319	1.00	25.46	C
ATOM	5310	O	LYS	B	262	1.033	65.331	99.884	1.00	25.35	O
ATOM	5311	CB	LYS	B	262	1.832	66.261	102.586	1.00	27.02	C
ATOM	5312	CG	LYS	B	262	2.441	67.040	103.733	1.00	33.30	C
ATOM	5313	CD	LYS	B	262	1.478	67.180	104.928	1.00	38.59	C
ATOM	5314	CE	LYS	B	262	2.035	68.114	106.035	1.00	41.15	C
ATOM	5315	NZ	LYS	B	262	3.344	67.648	106.637	1.00	43.55	N
ATOM	5316	N	ASN	B	263	3.030	64.299	100.002	1.00	26.89	N
ATOM	5317	CA	ASN	B	263	2.737	63.238	99.029	1.00	27.54	C
ATOM	5318	C	ASN	B	263	2.128	61.997	99.628	1.00	28.64	C
ATOM	5319	O	ASN	B	263	2.418	61.634	100.775	1.00	29.50	O
ATOM	5320	CB	ASN	B	263	4.018	62.786	98.359	1.00	26.64	C
ATOM	5321	CG	ASN	B	263	4.942	62.127	99.331	1.00	28.06	C
ATOM	5322	OD1	ASN	B	263	5.351	62.747	100.307	1.00	31.11	O
ATOM	5323	ND2	ASN	B	263	5.255	60.861	99.103	1.00	29.53	N
ATOM	5324	N	GLY	B	264	1.333	61.299	98.830	1.00	28.30	N
ATOM	5325	CA	GLY	B	264	0.744	60.066	99.327	1.00	27.45	C
ATOM	5326	C	GLY	B	264	-0.504	59.668	98.584	1.00	26.68	C
ATOM	5327	O	GLY	B	264	-0.862	60.269	97.574	1.00	25.09	O
ATOM	5328	N	ILE	B	265	-1.184	58.652	99.098	1.00	26.17	N
ATOM	5329	CA	ILE	B	265	-2.388	58.210	98.432	1.00	27.50	C
ATOM	5330	C	ILE	B	265	-3.497	59.230	98.592	1.00	26.26	C
ATOM	5331	O	ILE	B	265	-4.347	59.355	97.731	1.00	25.00	O
ATOM	5332	CB	ILE	B	265	-2.860	56.821	98.960	1.00	27.19	C
ATOM	5333	CG1	ILE	B	265	-4.046	56.339	98.131	1.00	27.90	C
ATOM	5334	CG2	ILE	B	265	-3.262	56.896	100.432	1.00	29.60	C
ATOM	5335	CD1	ILE	B	265	-4.446	54.935	98.455	1.00	30.70	C
ATOM	5336	N	GLU	B	266	-3.479	59.962	99.708	1.00	26.45	N
ATOM	5337	CA	GLU	B	266	-4.516	60.944	99.986	1.00	26.86	C
ATOM	5338	C	GLU	B	266	-4.648	62.013	98.914	1.00	24.98	C
ATOM	5339	O	GLU	B	266	-5.759	62.325	98.455	1.00	25.50	O
ATOM	5340	CB	GLU	B	266	-4.266	61.562	101.371	1.00	31.91	C
ATOM	5341	CG	GLU	B	266	-5.437	62.374	101.914	1.00	38.09	C
ATOM	5342	CD	GLU	B	266	-5.291	62.669	103.410	1.00	41.72	C
ATOM	5343	OE1	GLU	B	266	-4.130	62.799	103.877	1.00	43.69	O
ATOM	5344	OE2	GLU	B	266	-6.333	62.784	104.108	1.00	43.83	O
ATOM	5345	N	PRO	B	267	-3.524	62.627	98.516	1.00	24.70	N
ATOM	5346	CA	PRO	B	267	-3.603	63.651	97.475	1.00	24.08	C
ATOM	5347	C	PRO	B	267	-4.059	62.983	96.154	1.00	23.80	C
ATOM	5348	O	PRO	B	267	-4.769	63.605	95.347	1.00	22.03	O
ATOM	5349	CB	PRO	B	267	-2.152	64.163	97.361	1.00	23.41	C
ATOM	5350	CG	PRO	B	267	-1.555	63.838	98.646	1.00	26.25	C
ATOM	5351	CD	PRO	B	267	-2.162	62.539	99.080	1.00	24.22	C
ATOM	5352	N	CYS	B	268	-3.635	61.728	95.943	1.00	23.66	N
ATOM	5353	CA	CYS	B	268	-4.005	60.977	94.714	1.00	24.50	C



ATOM	5354	C	CYS	B	268	-5.512	60.771	94.652	1.00	24.61	C
ATOM	5355	O	CYS	B	268	-6.139	60.946	93.601	1.00	24.99	O
ATOM	5356	CB	CYS	B	268	-3.311	59.606	94.676	1.00	25.36	C
ATOM	5357	SG	CYS	B	268	-1.530	59.706	94.279	1.00	24.27	S
ATOM	5358	N	ILE	B	269	-6.086	60.391	95.797	1.00	24.40	N
ATOM	5359	CA	ILE	B	269	-7.523	60.161	95.889	1.00	24.43	C
ATOM	5360	C	ILE	B	269	-8.290	61.454	95.629	1.00	25.05	C
ATOM	5361	O	ILE	B	269	-9.336	61.476	94.936	1.00	24.41	O
ATOM	5362	CB	ILE	B	269	-7.912	59.582	97.292	1.00	23.49	C
ATOM	5363	CG1	ILE	B	269	-7.369	58.153	97.433	1.00	24.28	C
ATOM	5364	CG2	ILE	B	269	-9.440	59.526	97.454	1.00	24.83	C
ATOM	5365	CD1	ILE	B	269	-7.531	57.569	98.825	1.00	20.81	C
ATOM	5366	N	ALA	B	270	-7.781	62.548	96.168	1.00	25.83	N
ATOM	5367	CA	ALA	B	270	-8.450	63.839	96.010	1.00	23.31	C
ATOM	5368	C	ALA	B	270	-8.452	64.291	94.561	1.00	24.80	C
ATOM	5369	O	ALA	B	270	-9.491	64.690	94.016	1.00	25.41	O
ATOM	5370	CB	ALA	B	270	-7.755	64.902	96.883	1.00	23.28	C
ATOM	5371	N	ARG	B	271	-7.277	64.244	93.939	1.00	23.53	N
ATOM	5372	CA	ARG	B	271	-7.142	64.666	92.557	1.00	22.33	C
ATOM	5373	C	ARG	B	271	-7.973	63.754	91.667	1.00	21.57	C
ATOM	5374	O	ARG	B	271	-8.630	64.208	90.733	1.00	21.59	O
ATOM	5375	CB	ARG	B	271	-5.654	64.641	92.149	1.00	22.62	C
ATOM	5376	CG	ARG	B	271	-4.831	65.728	92.871	1.00	23.29	C
ATOM	5377	CD	ARG	B	271	-3.351	65.752	92.516	1.00	22.14	C
ATOM	5378	NE	ARG	B	271	-2.780	67.046	92.904	1.00	22.20	N
ATOM	5379	CZ	ARG	B	271	-2.326	67.962	92.054	1.00	19.65	C
ATOM	5380	NH1	ARG	B	271	-2.348	67.733	90.743	1.00	19.15	N
ATOM	5381	NH2	ARG	B	271	-1.878	69.132	92.521	1.00	21.71	N
ATOM	5382	N	ALA	B	272	-7.939	62.467	91.980	1.00	22.86	N
ATOM	5383	CA	ALA	B	272	-8.677	61.474	91.204	1.00	23.45	C
ATOM	5384	C	ALA	B	272	-10.155	61.820	91.163	1.00	25.47	C
ATOM	5385	O	ALA	B	272	-10.765	61.766	90.104	1.00	26.38	O
ATOM	5386	CB	ALA	B	272	-8.455	60.094	91.781	1.00	25.66	C
ATOM	5387	N	LYS	B	273	-10.714	62.211	92.306	1.00	26.60	N
ATOM	5388	CA	LYS	B	273	-12.120	62.589	92.377	1.00	26.96	C
ATOM	5389	C	LYS	B	273	-12.357	63.846	91.585	1.00	24.97	C
ATOM	5390	O	LYS	B	273	-13.351	63.958	90.893	1.00	26.70	O
ATOM	5391	CB	LYS	B	273	-12.562	62.817	93.837	1.00	28.29	C
ATOM	5392	CG	LYS	B	273	-12.415	61.605	94.735	1.00	30.09	C
ATOM	5393	CD	LYS	B	273	-12.785	61.969	96.188	1.00	30.97	C
ATOM	5394	CE	LYS	B	273	-12.548	60.793	97.117	1.00	34.55	C
ATOM	5395	NZ	LYS	B	273	-12.931	61.066	98.550	1.00	34.53	N
ATOM	5396	N	ALA	B	274	-11.457	64.820	91.672	1.00	25.63	N
ATOM	5397	CA	ALA	B	274	-11.643	66.054	90.919	1.00	22.91	C
ATOM	5398	C	ALA	B	274	-11.534	65.824	89.398	1.00	23.99	C
ATOM	5399	O	ALA	B	274	-12.181	66.541	88.620	1.00	21.46	O
ATOM	5400	CB	ALA	B	274	-10.607	67.119	91.363	1.00	24.04	C
ATOM	5401	N	TYR	B	275	-10.687	64.874	88.983	1.00	22.72	N
ATOM	5402	CA	TYR	B	275	-10.504	64.563	87.547	1.00	22.94	C
ATOM	5403	C	TYR	B	275	-11.595	63.634	86.999	1.00	24.14	C
ATOM	5404	O	TYR	B	275	-11.801	63.561	85.782	1.00	23.72	O
ATOM	5405	CB	TYR	B	275	-9.177	63.837	87.281	1.00	21.36	C
ATOM	5406	CG	TYR	B	275	-7.917	64.567	87.718	1.00	19.75	C
ATOM	5407	CD1	TYR	B	275	-7.898	65.952	87.849	1.00	16.47	C
ATOM	5408	CD2	TYR	B	275	-6.744	63.851	87.993	1.00	19.77	C
ATOM	5409	CE1	TYR	B	275	-6.722	66.635	88.265	1.00	18.94	C
ATOM	5410	CE2	TYR	B	275	-5.574	64.522	88.398	1.00	21.30	C
ATOM	5411	CZ	TYR	B	275	-5.583	65.908	88.534	1.00	19.03	C
ATOM	5412	OH	TYR	B	275	-4.438	66.544	88.989	1.00	23.48	O
ATOM	5413	N	ALA	B	276	-12.293	62.920	87.883	1.00	25.19	N
ATOM	5414	CA	ALA	B	276	-13.287	61.940	87.414	1.00	26.29	C
ATOM	5415	C	ALA	B	276	-14.348	62.377	86.396	1.00	26.37	C
ATOM	5416	O	ALA	B	276	-14.682	61.618	85.483	1.00	28.05	O
ATOM	5417	CB	ALA	B	276	-13.952	61.264	88.611	1.00	25.73	C
ATOM	5418	N	PRO	B	277	-14.910	63.583	86.531	1.00	26.76	N
ATOM	5419	CA	PRO	B	277	-15.918	63.958	85.535	1.00	26.34	C
ATOM	5420	C	PRO	B	277	-15.309	64.149	84.141	1.00	27.20	C
ATOM	5421	O	PRO	B	277	-16.031	64.181	83.138	1.00	28.10	O
ATOM	5422	CB	PRO	B	277	-16.440	65.304	86.034	1.00	26.17	C
ATOM	5423	CG	PRO	B	277	-16.169	65.268	87.520	1.00	26.08	C
ATOM	5424	CD	PRO	B	277	-14.817	64.591	87.605	1.00	27.97	C
ATOM	5425	N	PHE	B	278	-13.994	64.341	84.102	1.00	26.74	N
ATOM	5426	CA	PHE	B	278	-13.271	64.619	82.849	1.00	24.45	C
ATOM	5427	C	PHE	B	278	-12.389	63.452	82.358	1.00	25.16	C
ATOM	5428	O	PHE	B	278	-11.502	63.655	81.502	1.00	25.75	O
ATOM	5429	CB	PHE	B	278	-12.384	65.848	83.079	1.00	24.55	C
ATOM	5430	CG	PHE	B	278	-13.104	67.032	83.707	1.00	24.89	C
ATOM	5431	CD1	PHE	B	278	-13.778	67.955	82.916	1.00	23.44	C
ATOM	5432	CD2	PHE	B	278	-13.078	67.240	85.094	1.00	23.83	C
ATOM	5433	CE1	PHE	B	278	-14.423	69.081	83.478	1.00	25.55	C



ATOM	5434	CE2	PHE	B	278	-13.728	68.373	85.666	1.00	25.57	C
ATOM	5435	CZ	PHE	B	278	-14.396	69.284	84.843	1.00	23.92	C
ATOM	5436	N	ALA	B	279	-12.598	62.249	82.889	1.00	24.46	N
ATOM	5437	CA	ALA	B	279	-11.751	61.108	82.513	1.00	24.30	C
ATOM	5438	C	ALA	B	279	-12.451	59.759	82.387	1.00	25.08	C
ATOM	5439	O	ALA	B	279	-13.168	59.349	83.295	1.00	23.77	O
ATOM	5440	CB	ALA	B	279	-10.612	60.972	83.540	1.00	23.47	C
ATOM	5441	N	ASP	B	280	-12.216	59.055	81.277	1.00	25.09	N
ATOM	5442	CA	ASP	B	280	-12.805	57.729	81.068	1.00	23.84	C
ATOM	5443	C	ASP	B	280	-12.089	56.664	81.912	1.00	24.84	C
ATOM	5444	O	ASP	B	280	-12.643	55.572	82.220	1.00	22.86	O
ATOM	5445	CB	ASP	B	280	-12.755	57.366	79.569	1.00	23.28	C
ATOM	5446	CG	ASP	B	280	-13.427	58.435	78.684	1.00	26.54	C
ATOM	5447	OD1	ASP	B	280	-14.576	58.844	79.000	1.00	25.28	O
ATOM	5448	OD2	ASP	B	280	-12.808	58.866	77.679	1.00	24.23	O
ATOM	5449	N	LEU	B	281	-10.822	56.929	82.239	1.00	24.53	N
ATOM	5450	CA	LEU	B	281	-10.088	56.030	83.127	1.00	24.26	C
ATOM	5451	C	LEU	B	281	-9.209	56.935	83.967	1.00	24.74	C
ATOM	5452	O	LEU	B	281	-8.817	58.002	83.495	1.00	23.86	O
ATOM	5453	CB	LEU	B	281	-9.217	55.010	82.384	1.00	23.49	C
ATOM	5454	CG	LEU	B	281	-10.042	53.920	81.668	1.00	21.22	C
ATOM	5455	CD1	LEU	B	281	-10.014	54.207	80.203	1.00	21.97	C
ATOM	5456	CD2	LEU	B	281	-9.511	52.517	81.985	1.00	22.04	C
ATOM	5457	N	ILE	B	282	-8.953	56.520	85.216	1.00	25.71	N
ATOM	5458	CA	ILE	B	282	-8.097	57.273	86.123	1.00	23.06	C
ATOM	5459	C	ILE	B	282	-6.991	56.348	86.559	1.00	23.49	C
ATOM	5460	O	ILE	B	282	-7.228	55.154	86.831	1.00	22.07	O
ATOM	5461	CB	ILE	B	282	-8.855	57.755	87.345	1.00	26.91	C
ATOM	5462	CG1	ILE	B	282	-9.999	58.685	86.898	1.00	27.95	C
ATOM	5463	CG2	ILE	B	282	-7.873	58.450	88.312	1.00	28.58	C
ATOM	5464	CD1	ILE	B	282	-10.912	59.215	88.035	1.00	29.25	C
ATOM	5465	N	TRP	B	283	-5.792	56.917	86.714	1.00	20.48	N
ATOM	5466	CA	TRP	B	283	-4.615	56.136	87.054	1.00	21.01	C
ATOM	5467	C	TRP	B	283	-3.734	56.869	88.052	1.00	20.82	C
ATOM	5468	O	TRP	B	283	-3.553	58.051	87.904	1.00	21.40	O
ATOM	5469	CB	TRP	B	283	-3.864	55.886	85.722	1.00	20.49	C
ATOM	5470	CG	TRP	B	283	-2.353	55.606	85.717	1.00	20.38	C
ATOM	5471	CD1	TRP	B	283	-1.589	55.053	86.712	1.00	21.75	C
ATOM	5472	CD2	TRP	B	283	-1.491	55.746	84.583	1.00	19.62	C
ATOM	5473	NE1	TRP	B	283	-0.298	54.829	86.255	1.00	21.43	N
ATOM	5474	CE2	TRP	B	283	-0.215	55.248	84.954	1.00	21.58	C
ATOM	5475	CE3	TRP	B	283	-1.680	56.234	83.287	1.00	18.19	C
ATOM	5476	CZ2	TRP	B	283	0.870	55.227	84.063	1.00	19.93	C
ATOM	5477	CZ3	TRP	B	283	-0.612	56.218	82.401	1.00	20.15	C
ATOM	5478	CH2	TRP	B	283	0.646	55.718	82.791	1.00	20.23	C
ATOM	5479	N	MET	B	284	-3.231	56.180	89.080	1.00	22.30	N
ATOM	5480	CA	MET	B	284	-2.293	56.836	89.980	1.00	23.45	C
ATOM	5481	C	MET	B	284	-1.002	56.042	89.971	1.00	22.54	C
ATOM	5482	O	MET	B	284	-1.012	54.828	90.168	1.00	23.46	O
ATOM	5483	CB	MET	B	284	-2.836	56.979	91.426	1.00	25.30	C
ATOM	5484	CG	MET	B	284	-2.850	55.715	92.271	1.00	25.52	C
ATOM	5485	SD	MET	B	284	-3.111	56.057	94.080	1.00	25.74	S
ATOM	5486	CE	MET	B	284	-1.596	55.590	94.740	1.00	26.63	C
ATOM	5487	N	GLU	B	285	0.111	56.695	89.689	1.00	20.62	N
ATOM	5488	CA	GLU	B	285	1.372	56.000	89.729	1.00	22.91	C
ATOM	5489	C	GLU	B	285	1.597	55.634	91.211	1.00	22.92	C
ATOM	5490	O	GLU	B	285	1.122	56.345	92.093	1.00	24.29	O
ATOM	5491	CB	GLU	B	285	2.503	56.916	89.213	1.00	22.87	C
ATOM	5492	CG	GLU	B	285	2.548	57.101	87.690	1.00	23.86	C
ATOM	5493	CD	GLU	B	285	3.004	55.820	86.948	1.00	26.05	C
ATOM	5494	OE1	GLU	B	285	2.382	54.741	87.127	1.00	23.11	O
ATOM	5495	OE2	GLU	B	285	3.984	55.884	86.178	1.00	29.01	O
ATOM	5496	N	THR	B	286	2.307	54.532	91.472	1.00	25.05	N
ATOM	5497	CA	THR	B	286	2.594	54.093	92.840	1.00	25.75	C
ATOM	5498	C	THR	B	286	4.021	53.598	92.917	1.00	25.86	C
ATOM	5499	O	THR	B	286	4.596	53.191	91.903	1.00	24.48	O
ATOM	5500	CB	THR	B	286	1.659	52.950	93.273	1.00	28.08	C
ATOM	5501	OG1	THR	B	286	1.906	51.796	92.458	1.00	29.46	O
ATOM	5502	CG2	THR	B	286	0.202	53.360	93.079	1.00	30.55	C
ATOM	5503	N	GLY	B	287	4.581	53.588	94.122	1.00	25.58	N
ATOM	5504	CA	GLY	B	287	5.963	53.179	94.283	1.00	27.77	C
ATOM	5505	C	GLY	B	287	6.276	51.696	94.362	1.00	27.44	C
ATOM	5506	O	GLY	B	287	7.441	51.307	94.345	1.00	27.75	O
ATOM	5507	N	THR	B	288	5.247	50.868	94.467	1.00	26.75	N
ATOM	5508	CA	THR	B	288	5.451	49.419	94.547	1.00	28.25	C
ATOM	5509	C	THR	B	288	4.210	48.745	94.012	1.00	27.05	C
ATOM	5510	O	THR	B	288	3.135	49.333	94.010	1.00	26.62	O
ATOM	5511	CB	THR	B	288	5.555	48.874	96.006	1.00	28.51	C
ATOM	5512	OG1	THR	B	288	4.383	49.267	96.721	1.00	28.47	O
ATOM	5513	CG2	THR	B	288	6.787	49.364	96.716	1.00	28.91	C



ATOM	5514	N	PRO	B	289	4.348	47.503	93.544	1.00	26.98	N
ATOM	5515	CA	PRO	B	289	3.172	46.784	93.037	1.00	28.79	C
ATOM	5516	C	PRO	B	289	2.507	46.199	94.306	1.00	30.04	O
ATOM	5517	O	PRO	B	289	2.956	45.164	94.826	1.00	31.57	C
ATOM	5518	CB	PRO	B	289	3.781	45.694	92.159	1.00	26.58	C
ATOM	5519	CG	PRO	B	289	5.030	45.361	92.866	1.00	27.87	C
ATOM	5520	CD	PRO	B	289	5.577	46.710	93.360	1.00	26.32	C
ATOM	5521	N	ASP	B	290	1.463	46.861	94.791	1.00	30.74	N
ATOM	5522	CA	ASP	B	290	0.773	46.470	96.031	1.00	32.51	C
ATOM	5523	C	ASP	B	290	-0.760	46.437	95.852	1.00	32.17	C
ATOM	5524	O	ASP	B	290	-1.402	47.471	95.644	1.00	30.60	O
ATOM	5525	CB	ASP	B	290	-1.195	47.453	97.151	1.00	34.23	C
ATOM	5526	CG	ASP	B	290	0.475	47.208	98.493	1.00	36.83	C
ATOM	5527	OD1	ASP	B	290	0.090	46.067	98.772	1.00	38.60	O
ATOM	5528	OD2	ASP	B	290	0.313	48.166	99.284	1.00	37.43	O
ATOM	5529	N	LEU	B	291	-1.346	45.238	95.928	1.00	31.46	N
ATOM	5530	CA	LEU	B	291	-2.790	45.104	95.737	1.00	32.55	C
ATOM	5531	C	LEU	B	291	-3.596	45.856	96.783	1.00	33.00	C
ATOM	5532	O	LEU	B	291	-4.679	46.408	96.498	1.00	31.54	O
ATOM	5533	CB	LEU	B	291	-3.192	43.624	95.731	1.00	30.34	C
ATOM	5534	CG	LEU	B	291	-2.784	42.882	94.466	1.00	31.61	C
ATOM	5535	CD1	LEU	B	291	-3.146	41.398	94.604	1.00	32.50	C
ATOM	5536	CD2	LEU	B	291	-3.488	43.523	93.266	1.00	30.25	C
ATOM	5537	N	GLU	B	292	-3.067	45.868	97.999	1.00	34.25	N
ATOM	5538	CA	GLU	B	292	-3.719	46.567	99.092	1.00	36.14	C
ATOM	5539	C	GLU	B	292	-3.816	48.083	98.773	1.00	35.03	C
ATOM	5540	O	GLU	B	292	-4.906	48.651	98.801	1.00	33.26	O
ATOM	5541	CB	GLU	B	292	-2.935	46.296	100.388	1.00	38.75	C
ATOM	5542	CG	GLU	B	292	-2.974	47.412	101.437	1.00	44.66	C
ATOM	5543	CD	GLU	B	292	-4.328	47.604	102.141	1.00	46.28	C
ATOM	5544	OE1	GLU	B	292	-5.301	48.032	101.479	1.00	46.51	O
ATOM	5545	OE2	GLU	B	292	-4.399	47.328	103.368	1.00	46.29	O
ATOM	5546	N	ALA	B	293	-2.694	48.732	98.449	1.00	33.78	N
ATOM	5547	CA	ALA	B	293	-2.749	50.171	98.139	1.00	32.23	C
ATOM	5548	C	ALA	B	293	-3.660	50.409	96.941	1.00	31.05	C
ATOM	5549	O	ALA	B	293	-4.406	51.400	96.898	1.00	29.31	O
ATOM	5550	CB	ALA	B	293	-1.331	50.735	97.861	1.00	31.86	C
ATOM	5551	N	ALA	B	294	-3.578	49.519	95.951	1.00	29.91	N
ATOM	5552	CA	ALA	B	294	-4.439	49.633	94.780	1.00	30.03	C
ATOM	5553	C	ALA	B	294	-5.903	49.571	95.221	1.00	30.76	C
ATOM	5554	O	ALA	B	294	-6.747	50.330	94.720	1.00	29.24	O
ATOM	5555	CB	ALA	B	294	-4.149	48.500	93.763	1.00	29.95	C
ATOM	5556	N	ARG	B	295	-6.206	48.661	96.148	1.00	29.97	N
ATOM	5557	CA	ARG	B	295	-7.581	48.550	96.618	1.00	31.65	C
ATOM	5558	C	ARG	B	295	-8.008	49.840	97.342	1.00	30.95	C
ATOM	5559	O	ARG	B	295	-9.102	50.353	97.097	1.00	31.00	O
ATOM	5560	CB	ARG	B	295	-7.752	47.334	97.541	1.00	32.59	C
ATOM	5561	CG	ARG	B	295	-9.231	46.985	97.814	1.00	33.88	C
ATOM	5562	CD	ARG	B	295	-9.354	45.988	98.964	1.00	36.08	C
ATOM	5563	NE	ARG	B	295	-8.577	44.794	98.685	1.00	38.67	N
ATOM	5564	CZ	ARG	B	295	-8.979	43.806	97.889	1.00	39.53	C
ATOM	5565	NH1	ARG	B	295	-10.175	43.859	97.292	1.00	36.79	N
ATOM	5566	NH2	ARG	B	295	-8.164	42.779	97.672	1.00	38.62	C
ATOM	5567	N	GLN	B	296	-7.155	50.368	98.225	1.00	30.87	N
ATOM	5568	CA	GLN	B	296	-7.486	51.614	98.929	1.00	30.17	C
ATOM	5569	C	GLN	B	296	-7.943	52.693	97.947	1.00	28.95	C
ATOM	5570	O	GLN	B	296	-8.972	53.338	98.130	1.00	26.47	O
ATOM	5571	CB	GLN	B	296	-6.281	52.181	99.657	1.00	32.80	C
ATOM	5572	CG	GLN	B	296	-5.870	51.502	100.906	1.00	35.79	C
ATOM	5573	CD	GLN	B	296	-4.757	52.272	101.575	1.00	39.48	C
ATOM	5574	OE1	GLN	B	296	-5.002	53.151	102.405	1.00	42.46	O
ATOM	5575	NE2	GLN	B	296	-3.516	51.972	101.195	1.00	38.14	N
ATOM	5576	N	PHE	B	297	-7.147	52.877	96.900	1.00	28.08	N
ATOM	5577	CA	PHE	B	297	-7.419	53.881	95.887	1.00	26.97	C
ATOM	5578	C	PHE	B	297	-8.737	53.614	95.193	1.00	27.89	C
ATOM	5579	O	PHE	B	297	-9.564	54.513	95.036	1.00	25.38	O
ATOM	5580	CB	PHE	B	297	-6.309	53.877	94.845	1.00	26.80	C
ATOM	5581	CG	PHE	B	297	-6.522	54.849	93.726	1.00	26.95	C
ATOM	5582	CD1	PHE	B	297	-6.554	56.224	93.972	1.00	25.44	C
ATOM	5583	CD2	PHE	B	297	-6.627	54.399	92.401	1.00	25.77	C
ATOM	5584	CE1	PHE	B	297	-6.676	57.141	92.905	1.00	24.40	C
ATOM	5585	CE2	PHE	B	297	-6.751	55.303	91.345	1.00	24.66	C
ATOM	5586	CZ	PHE	B	297	-6.774	56.670	91.593	1.00	26.69	C
ATOM	5587	N	SER	B	298	-8.896	52.372	94.746	1.00	27.87	N
ATOM	5588	CA	SER	B	298	-10.124	51.950	94.066	1.00	30.15	C
ATOM	5589	C	SER	B	298	-11.385	52.154	94.905	1.00	29.82	C
ATOM	5590	O	SER	B	298	-12.366	52.733	94.431	1.00	29.23	O
ATOM	5591	CB	SER	B	298	-10.028	50.470	93.701	1.00	31.03	C
ATOM	5592	OG	SER	B	298	-11.238	50.041	93.121	1.00	34.67	O
ATOM	5593	N	GLU	B	299	-11.380	51.649	96.142	1.00	30.80	N



ATOM	5594	CA	GLU	B	299	-12.585	51.809	96.983	1.00	32.03	C
ATOM	5595	C	GLU	B	299	-12.881	53.268	97.214	1.00	31.35	C
ATOM	5596	O	GLU	B	299	-14.033	53.700	97.133	1.00	31.78	O
ATOM	5597	CB	GLU	B	299	-12.417	51.127	98.335	1.00	32.95	C
ATOM	5598	CG	GLU	B	299	-12.172	49.649	98.212	1.00	36.92	C
ATOM	5599	CD	GLU	B	299	-12.122	48.945	99.554	1.00	40.90	C
ATOM	5600	OE1	GLU	B	299	-11.743	49.588	100.568	1.00	41.34	O
ATOM	5601	OE2	GLU	B	299	-12.443	47.731	99.590	1.00	42.13	O
ATOM	5602	N	ALA	B	300	-11.830	54.033	97.494	1.00	30.51	N
ATOM	5603	CA	ALA	B	300	-11.983	55.458	97.773	1.00	30.25	C
ATOM	5604	C	ALA	B	300	-12.568	56.204	96.593	1.00	29.43	C
ATOM	5605	O	ALA	B	300	-13.493	57.001	96.738	1.00	28.45	O
ATOM	5606	CB	ALA	B	300	-10.612	56.056	98.182	1.00	28.71	C
ATOM	5607	N	VAL	B	301	-12.033	55.956	95.403	1.00	29.32	N
ATOM	5608	CA	VAL	B	301	-12.551	56.661	94.241	1.00	29.35	C
ATOM	5609	C	VAL	B	301	-13.955	56.204	93.840	1.00	29.78	C
ATOM	5610	O	VAL	B	301	-14.817	57.036	93.536	1.00	26.67	O
ATOM	5611	CB	VAL	B	301	-11.611	56.515	93.012	1.00	29.14	C
ATOM	5612	CG1	VAL	B	301	-12.217	57.238	91.828	1.00	28.75	C
ATOM	5613	CG2	VAL	B	301	-10.231	57.104	93.333	1.00	25.36	C
ATOM	5614	N	LYS	B	302	-14.161	54.887	93.821	1.00	30.00	N
ATOM	5615	CA	LYS	B	302	-15.465	54.346	93.442	1.00	33.61	C
ATOM	5616	C	LYS	B	302	-16.543	54.649	94.484	1.00	34.98	C
ATOM	5617	O	LYS	B	302	-17.737	54.607	94.183	1.00	34.24	O
ATOM	5618	CB	LYS	B	302	-15.368	52.842	93.172	1.00	33.12	C
ATOM	5619	CG	LYS	B	302	-14.958	52.529	91.729	1.00	33.19	C
ATOM	5620	CD	LYS	B	302	-14.613	51.059	91.552	1.00	32.54	C
ATOM	5621	CE	LYS	B	302	-14.255	50.732	90.110	1.00	30.96	C
ATOM	5622	NZ	LYS	B	302	-15.414	51.009	89.224	1.00	34.63	N
ATOM	5623	N	ALA	B	303	-16.114	54.974	95.701	1.00	35.63	N
ATOM	5624	CA	ALA	B	303	-17.047	55.326	96.750	1.00	36.07	C
ATOM	5625	C	ALA	B	303	-17.766	56.606	96.313	1.00	37.12	C
ATOM	5626	O	ALA	B	303	-18.840	56.907	96.817	1.00	37.37	O
ATOM	5627	CB	ALA	B	303	-16.305	55.546	98.060	1.00	35.63	C
ATOM	5628	N	GLU	B	304	-17.186	57.354	95.372	1.00	37.51	N
ATOM	5629	CA	GLU	B	304	-17.819	58.581	94.883	1.00	39.01	C
ATOM	5630	C	GLU	B	304	-18.254	58.478	93.405	1.00	39.06	C
ATOM	5631	O	GLU	B	304	-19.154	59.203	92.945	1.00	38.53	O
ATOM	5632	CB	GLU	B	304	-16.865	59.762	95.062	1.00	41.91	C
ATOM	5633	CG	GLU	B	304	-17.527	61.120	94.904	1.00	46.30	C
ATOM	5634	CD	GLU	B	304						



ATOM	5674	CA	MET	B	309	-12.972	52.634	85.416	1.00	28.38	C
ATOM	5675	C	MET	B	309	-11.568	53.178	85.739	1.00	28.09	C
ATOM	5676	O	MET	B	309	-11.307	54.368	85.602	1.00	27.27	O
ATOM	5677	CB	MET	B	309	-13.064	52.236	83.931	1.00	28.49	C
ATOM	5678	CG	MET	B	309	-14.342	51.547	83.546	1.00	29.04	C
ATOM	5679	SD	MET	B	309	-14.254	50.913	81.852	1.00	31.75	S
ATOM	5680	CE	MET	B	309	-14.616	52.448	80.973	1.00	26.31	C
ATOM	5681	N	LEU	B	310	-10.681	52.284	86.162	1.00	29.60	N
ATOM	5682	CA	LEU	B	310	-9.321	52.665	86.525	1.00	27.69	C
ATOM	5683	C	LEU	B	310	-8.256	51.978	85.666	1.00	27.04	C
ATOM	5684	O	LEU	B	310	-8.511	50.943	85.021	1.00	26.03	O
ATOM	5685	CB	LEU	B	310	-9.098	52.366	88.014	1.00	28.26	C
ATOM	5686	CG	LEU	B	310	-10.226	52.900	88.912	1.00	26.79	C
ATOM	5687	CD1	LEU	B	310	-10.049	52.362	90.333	1.00	25.48	C
ATOM	5688	CD2	LEU	B	310	-10.267	54.423	88.864	1.00	25.91	C
ATOM	5689	N	ALA	B	311	-7.056	52.561	85.642	1.00	25.37	N
ATOM	5690	CA	ALA	B	311	-5.972	51.971	84.867	1.00	24.59	C
ATOM	5691	C	ALA	B	311	-4.808	51.725	85.808	1.00	23.07	C
ATOM	5692	O	ALA	B	311	-4.625	52.457	86.787	1.00	24.80	O
ATOM	5693	CB	ALA	B	311	-5.571	52.918	83.718	1.00	22.16	C
ATOM	5694	N	TYR	B	312	-4.019	50.701	85.522	1.00	23.58	N
ATOM	5695	CA	TYR	B	312	-2.892	50.368	86.354	1.00	22.04	C
ATOM	5696	C	TYR	B	312	-1.617	50.011	85.566	1.00	22.53	C
ATOM	5697	O	TYR	B	312	-1.620	49.201	84.629	1.00	21.42	O
ATOM	5698	CB	TYR	B	312	-3.271	49.236	87.309	1.00	21.84	C
ATOM	5699	CG	TYR	B	312	-2.300	49.015	88.438	1.00	21.16	C
ATOM	5700	CD1	TYR	B	312	-1.126	48.311	88.243	1.00	21.32	C
ATOM	5701	CD2	TYR	B	312	-2.560	49.534	89.719	1.00	22.67	C
ATOM	5702	CB1	TYR	B	312	-0.229	48.119	89.280	1.00	22.50	C
ATOM	5703	CE2	TYR	B	312	-1.645	49.349	90.763	1.00	22.17	C
ATOM	5704	CZ	TYR	B	312	-0.494	48.643	90.528	1.00	22.14	C
ATOM	5705	OH	TYR	B	312	0.394	48.460	91.537	1.00	23.35	O
ATOM	5706	N	ASN	B	313	-0.520	50.613	86.001	1.00	21.20	N
ATOM	5707	CA	ASN	B	313	0.760	50.409	85.377	1.00	21.45	C
ATOM	5708	C	ASN	B	313	1.566	49.332	86.074	1.00	21.64	C
ATOM	5709	O	ASN	B	313	2.083	49.531	87.188	1.00	20.17	O
ATOM	5710	CB	ASN	B	313	1.530	51.747	85.356	1.00	21.84	C
ATOM	5711	CG	ASN	B	313	2.970	51.571	84.960	1.00	23.63	C
ATOM	5712	OD1	ASN	B	313	3.324	50.575	84.325	1.00	21.51	C
ATOM	5713	ND2	ASN	B	313	3.825	52.552	85.327	1.00	25.64	N
ATOM	5714	N	CYS	B	314	1.621	48.162	85.447	1.00	20.39	N
ATOM	5715	CA	CYS	B	314	2.417	47.080	85.987	1.00	21.89	C
ATOM	5716	C	CYS	B	314	3.809	47.408	85.494	1.00	21.94	C
ATOM	5717	O	CYS	B	314	4.266	46.838	84.519	1.00	20.91	O
ATOM	5718	CB	CYS	B	314	1.940	45.735	85.424	1.00	21.93	C
ATOM	5719	SG	CYS	B	314	0.277	45.438	85.984	1.00	24.74	S
ATOM	5720	N	SER	B	315	4.483	48.315	86.203	1.00	22.61	N
ATOM	5721	CA	SER	B	315	5.797	48.785	85.788	1.00	22.88	C
ATOM	5722	C	SER	B	315	7.076	47.968	85.940	1.00	22.20	C
ATOM	5723	O	SER	B	315	7.358	47.376	87.004	1.00	21.27	O
ATOM	5724	CB	SER	B	315	6.053	50.170	86.418	1.00	24.55	C
ATOM	5725	OG	SER	B	315	7.277	50.701	85.930	1.00	23.54	O
ATOM	5726	N	PRO	B	316	7.879	47.915	84.859	1.00	20.49	N
ATOM	5727	CA	PRO	B	316	9.111	47.162	84.989	1.00	20.78	C
ATOM	5728	C	PRO	B	316	10.029	47.966	85.918	1.00	20.37	C
ATOM	5729	O	PRO	B	316	11.106	47.509	86.263	1.00	21.28	O
ATOM	5730	CB	PRO	B	316	9.614	47.066	83.539	1.00	17.68	C
ATOM	5731	CG	PRO	B	316	8.342	47.038	82.774	1.00	19.09	C
ATOM	5732	CD	PRO	B	316	7.566	48.132	83.432	1.00	20.31	C
ATOM	5733	N	SER	B	317	9.600	49.168	86.323	1.00	21.80	N
ATOM	5734	CA	SER	B	317	10.421	49.976	87.241	1.00	22.69	C
ATOM	5735	C	SER	B	317	10.357	49.416	88.676	1.00	24.23	C
ATOM	5736	O	SER	B	317	11.079	49.878	89.558	1.00	23.01	O
ATOM	5737	CB	SER	B	317	9.986	51.448	87.238	1.00	22.16	C
ATOM	5738	OG	SER	B	317	10.418	52.080	86.050	1.00	23.46	O
ATOM	5739	N	PHE	B	318	9.495	48.413	88.885	1.00	25.11	N
ATOM	5740	CA	PHE	B	318	9.381	47.749	90.183	1.00	26.14	C
ATOM	5741	C	PHE	B	318	10.270	46.513	90.122	1.00	28.62	C
ATOM	5742	O	PHE	B	318	10.401	45.906	89.050	1.00	28.04	O
ATOM	5743	CB	PHE	B	318	7.961	47.243	90.445	1.00	24.70	C
ATOM	5744	CG	PHE	B	318	6.909	48.313	90.487	1.00	22.59	C
ATOM	5745	CD1	PHE	B	318	7.175	49.564	91.048	1.00	22.30	C
ATOM	5746	CD2	PHE	B	318	5.639	48.068	89.973	1.00	22.39	C
ATOM	5747	CE1	PHE	B	318	6.184	50.558	91.094	1.00	21.33	C
ATOM	5748	CE2	PHE	B	318	4.634	49.039	90.010	1.00	19.13	C
ATOM	5749	CZ	PHE	B	318	4.902	50.296	90.571	1.00	21.63	C
ATOM	5750	N	ASN	B	319	10.901	46.152	91.244	1.00	28.98	N
ATOM	5751	CA	ASN	B	319	11.700	44.916	91.295	1.00	29.35	C
ATOM	5752	C	ASN	B	319	10.612	43.954	91.769	1.00	29.87	C
ATOM	5753	O	ASN	B	319	10.358	43.851	92.961	1.00	28.51	O



ATOM	5754	CB	ASN	B	319	12.816	45.033	92.333	1.00	31.00	C
ATOM	5755	CG	ASN	B	319	13.759	43.841	92.316	1.00	30.19	C
ATOM	5756	OD1	ASN	B	319	14.976	43.986	92.511	1.00	33.37	O
ATOM	5757	ND2	ASN	B	319	13.213	42.665	92.085	1.00	25.99	N
ATOM	5758	N	TRP	B	320	9.951	43.277	90.827	1.00	29.46	N
ATOM	5759	CA	TRP	B	320	8.825	42.421	91.157	1.00	30.24	C
ATOM	5760	C	TRP	B	320	8.994	41.342	92.215	1.00	31.86	C
ATOM	5761	O	TRP	B	320	8.230	41.302	93.164	1.00	32.47	O
ATOM	5762	CB	TRP	B	320	8.217	41.827	89.877	1.00	28.13	C
ATOM	5763	CG	TRP	B	320	7.466	42.890	89.090	1.00	25.74	C
ATOM	5764	CD1	TRP	B	320	8.018	43.872	88.308	1.00	26.06	C
ATOM	5765	CD2	TRP	B	320	6.064	43.156	89.127	1.00	24.13	C
ATOM	5766	NE1	TRP	B	320	7.040	44.742	87.860	1.00	22.66	N
ATOM	5767	CE2	TRP	B	320	5.833	44.326	88.346	1.00	26.17	C
ATOM	5768	CE3	TRP	B	320	4.978	42.537	89.743	1.00	26.50	C
ATOM	5769	CZ2	TRP	B	320	4.576	44.865	88.170	1.00	24.67	C
ATOM	5770	CZ3	TRP	B	320	3.716	43.085	89.571	1.00	22.71	C
ATOM	5771	CH2	TRP	B	320	3.529	44.235	88.789	1.00	29.26	C
ATOM	5772	N	LYS	B	321	9.986	40.475	92.091	1.00	35.22	N
ATOM	5773	CA	LYS	B	321	10.102	39.453	93.123	1.00	37.81	C
ATOM	5774	C	LYS	B	321	10.670	39.965	94.441	1.00	39.47	C
ATOM	5775	O	LYS	B	321	10.637	39.254	95.447	1.00	40.71	O
ATOM	5776	CB	LYS	B	321	10.872	38.231	92.604	1.00	38.20	C
ATOM	5777	CG	LYS	B	321	9.968	37.320	91.757	1.00	38.81	C
ATOM	5778	CD	LYS	B	321	10.699	36.137	91.100	1.00	41.32	C
ATOM	5779	CE	LYS	B	321	11.173	35.105	92.134	1.00	40.60	C
ATOM	5780	NZ	LYS	B	321	10.034	34.707	93.024	1.00	42.34	N
ATOM	5781	N	LYS	B	322	11.170	41.197	94.468	1.00	40.11	N
ATOM	5782	CA	LYS	B	322	11.688	41.730	95.727	1.00	41.32	C
ATOM	5783	C	LYS	B	322	10.499	42.044	96.616	1.00	40.91	C
ATOM	5784	O	LYS	B	322	10.583	41.997	97.836	1.00	40.67	O
ATOM	5785	CB	LYS	B	322	12.490	43.011	95.494	1.00	42.05	C
ATOM	5786	CG	LYS	B	322	12.772	43.808	96.767	1.00	44.07	C
ATOM	5787	CD	LYS	B	322	13.481	45.130	96.464	1.00	45.23	C
ATOM	5788	CE	LYS	B	322	13.910	45.853	97.733	1.00	46.07	C
ATOM	5789	NZ	LYS	B	322	15.372	46.160	97.655	1.00	46.83	N
ATOM	5790	N	HIS	B	323	9.376	42.352	95.988	1.00	41.24	N
ATOM	5791	CA	HIS	B	323	8.171	42.710	96.718	1.00	41.84	C
ATOM	5792	C	HIS	B	323	7.128	41.607	96.842	1.00	41.90	C
ATOM	5793	O	HIS	B	323	6.550	41.419	97.911	1.00	40.74	O
ATOM	5794	CB	HIS	B	323	7.509	43.922	96.061	1.00	43.42	C
ATOM	5795	CG	HIS	B	323	8.357	45.152	96.080	1.00	45.20	C
ATOM	5796	ND1	HIS	B	323	8.441	45.982	97.178	1.00	45.90	N
ATOM	5797	CD2	HIS	B	323	9.216	45.657	95.161	1.00	46.15	C
ATOM	5798	CE1	HIS	B	323	9.316	46.941	96.937	1.00	46.27	C
ATOM	5799	NE2	HIS	B	323	9.802	46.767	95.720	1.00	46.64	N
ATOM	5800	N	LEU	B	324	6.891	40.879	95.756	1.00	40.55	N
ATOM	5801	CA	LEU	B	324	5.867	39.851	95.771	1.00	39.81	C
ATOM	5802	C	LEU	B	324	6.393	38.444	95.565	1.00	39.41	C
ATOM	5803	O	LEU	B	324	7.523	38.246	95.114	1.00	39.13	O
ATOM	5804	CB	LEU	B	324	4.812	40.181	94.708	1.00	38.64	C
ATOM	5805	CG	LEU	B	324	4.242	41.604	94.733	1.00	37.90	C
ATOM	5806	CD1	LEU	B	324	3.392	41.827	93.498	1.00	36.26	C
ATOM	5807	CD2	LEU	B	324	3.442	41.844	95.995	1.00	36.83	C
ATOM	5808	N	ASP	B	325	5.585	37.459	95.948	1.00	39.75	N
ATOM	5809	CA	ASP	B	325	5.973	36.066	95.751	1.00	40.21	C
ATOM	5810	C	ASP	B	325	5.203	35.599	94.540	1.00	39.32	C
ATOM	5811	O	ASP	B	325	4.193	36.206	94.163	1.00	39.21	O
ATOM	5812	CB	ASP	B	325	5.638	35.185	96.964	1.00	41.90	C
ATOM	5813	CG	ASP	B	325	4.229	35.415	97.493	1.00	42.24	C
ATOM	5814	OD1	ASP	B	325	3.305	35.645	96.687	1.00	42.35	O
ATOM	5815	OD2	ASP	B	325	4.053	35.350	98.731	1.00	44.42	O
ATOM	5816	N	ASP	B	326	5.666	34.513	93.943	1.00	38.41	N
ATOM	5817	CA	ASP	B	326	5.041	33.988	92.737	1.00	37.55	C
ATOM	5818	C	ASP	B	326	3.521	33.868	92.777	1.00	37.00	C
ATOM	5819	O	ASP	B	326	2.847	34.229	91.813	1.00	35.07	O
ATOM	5820	CB	ASP	B	326	5.679	32.657	92.364	1.00	38.12	C
ATOM	5821	CG	ASP	B	326	7.162	32.775	92.190	1.00	40.42	C
ATOM	5822	OD1	ASP	B	326	7.629	33.862	91.779	1.00	42.97	O
ATOM	5823	OD2	ASP	B	326	7.878	31.796	92.459	1.00	41.84	O
ATOM	5824	N	ALA	B	327	2.965	33.386	93.887	1.00	35.58	N
ATOM	5825	CA	ALA	B	327	1.515	33.249	93.951	1.00	33.55	C
ATOM	5826	C	ALA	B	327	0.787	34.588	93.725	1.00	31.69	C
ATOM	5827	O	ALA	B	327	-0.195	34.677	92.985	1.00	30.96	O
ATOM	5828	CB	ALA	B	327	1.121	32.632	95.294	1.00	34.71	C
ATOM	5829	N	THR	B	328	1.269	35.631	94.378	1.00	31.97	N
ATOM	5830	CA	THR	B	328	0.681	36.969	94.239	1.00	30.41	C
ATOM	5831	C	THR	B	328	0.972	37.530	92.826	1.00	29.96	C
ATOM	5832	O	THR	B	328	0.112	38.155	92.206	1.00	26.82	O
ATOM	5833	CB	THR	B	328	1.278	37.922	95.297	1.00	31.58	C



ATOM	5834	OG1	THR	B	328	1.271	37.262	96.576	1.00	31.65
ATOM	5835	CG2	THR	B	328	0.464	39.222	95.389	1.00	30.29
ATOM	5836	N	ILE	B	329	2.187	37.310	92.334	1.00	29.65
ATOM	5837	CA	ILE	B	329	2.553	37.775	90.993	1.00	30.70
ATOM	5838	C	ILE	B	329	1.609	37.134	89.980	1.00	32.06
ATOM	5839	O	ILE	B	329	1.119	37.780	89.035	1.00	31.04
ATOM	5840	CB	ILE	B	329	4.013	37.386	90.674	1.00	31.08
ATOM	5841	CG1	ILE	B	329	4.964	38.338	91.417	1.00	29.60
ATOM	5842	CG2	ILE	B	329	4.256	37.390	89.184	1.00	30.20
ATOM	5843	CD1	ILE	B	329	6.440	37.900	91.363	1.00	31.60
ATOM	5844	N	ALA	B	330	1.335	35.853	90.204	1.00	30.89
ATOM	5845	CA	ALA	B	330	0.466	35.110	89.321	1.00	31.34
ATOM	5846	C	ALA	B	330	-0.951	35.650	89.264	1.00	30.32
ATOM	5847	O	ALA	B	330	-1.559	35.664	88.212	1.00	32.13
ATOM	5848	CB	ALA	B	330	0.445	33.646	89.738	1.00	31.05
ATOM	5849	N	LYS	B	331	-1.475	36.113	90.390	1.00	30.45
ATOM	5850	CA	LYS	B	331	-2.853	36.601	90.438	1.00	28.75
ATOM	5851	C	LYS	B	331	-2.930	38.105	90.344	1.00	29.46
ATOM	5852	O	LYS	B	331	-4.020	38.677	90.335	1.00	27.46
ATOM	5853	CB	LYS	B	331	-3.479	36.210	91.782	1.00	31.24
ATOM	5854	CG	LYS	B	331	-2.867	36.990	92.962	1.00	31.04
ATOM	5855	CD	LYS	B	331	-3.619	36.784	94.278	1.00	33.89
ATOM	5856	CE	LYS	B	331	-3.018	35.661	95.102	1.00	34.67
ATOM	5857	NZ	LYS	B	331	-3.723	35.509	96.420	1.00	34.57
ATOM	5858	N	PHE	B	332	-1.774	38.755	90.297	1.00	28.89
ATOM	5859	CA	PHE	B	332	-1.780	40.204	90.304	1.00	28.78
ATOM	5860	C	PHE	B	332	-2.842	40.885	89.445	1.00	27.68
ATOM	5861	O	PHE	B	332	-3.721	41.569	89.972	1.00	26.97
ATOM	5862	CB	PHE	B	332	-0.389	40.731	89.975	1.00	28.30
ATOM	5863	CG	PHE	B	332	-0.160	42.144	90.464	1.00	30.22
ATOM	5864	CD1	PHE	B	332	0.111	42.391	91.809	1.00	30.46
ATOM	5865	CD2	PHE	B	332	-0.232	43.222	89.577	1.00	30.74
ATOM	5866	CE1	PHE	B	332	0.311	43.695	92.269	1.00	32.36
ATOM	5867	CE2	PHE	B	332	-0.039	44.517	90.014	1.00	30.77
ATOM	5868	CZ	PHE	B	332	0.232	44.765	91.357	1.00	32.16
ATOM	5869	N	GLN	B	333	-2.803	40.683	88.124	1.00	29.07
ATOM	5870	CA	GLN	B	333	-3.768	41.352	87.241	1.00	27.31
ATOM	5871	C	GLN	B	333	-5.230	40.962	87.426	1.00	28.96
ATOM	5872	O	GLN	B	333	-6.139	41.817	87.287	1.00	28.45
ATOM	5873	CB	GLN	B	333	-3.380	41.168	85.758	1.00	28.21
ATOM	5874	CG	GLN	B	333	-2.044	41.809	85.370	1.00	25.64
ATOM	5875	CD	GLN	B	333	-1.898	42.110	83.866	1.00	27.21
ATOM	5876	OE1	GLN	B	333	-2.571	41.512	83.010	1.00	22.85
ATOM	5877	NE2	GLN	B	333	-0.996	43.042	83.543	1.00	24.94
ATOM	5878	N	LYS	B	334	-5.475	39.684	87.720	1.00	29.19
ATOM	5879	CA	LYS	B	334	-6.856	39.253	87.905	1.00	31.06
ATOM	5880	C	LYS	B	334	-7.409	39.937	89.162	1.00	29.50
ATOM	5881	O	LYS	B	334	-8.557	40.377	89.190	1.00	27.85
ATOM	5882	CB	LYS	B	334	-6.934	37.728	88.044	1.00	33.21
ATOM	5883	CG	LYS	B	334	-8.321	37.163	87.704	1.00	36.14
ATOM	5884	CD	LYS	B	334	-8.361	35.644	87.864	1.00	39.76
ATOM	5885	CE	LYS	B	334	-9.636	35.041	87.262	1.00	40.57
ATOM	5886	NZ	LYS	B	334	-10.860	35.838	87.619	1.00	41.07
ATOM	5887	N	GLU	B	335	-6.576	40.043	90.191	1.00	29.17
ATOM	5888	CA	GLU	B	335	-7.012	40.692	91.416	1.00	31.38
ATOM	5889	C	GLU	B	335	-7.415	42.145	91.131	1.00	31.23
ATOM	5890	O	GLU	B	335	-8.503	42.592	91.516	1.00	30.09
ATOM	5891	CB	GLU	B	335	-5.890	40.642	92.447	1.00	32.84
ATOM	5892	CG	GLU	B	335	-5.707	39.267	93.075	1.00	36.20
ATOM	5893	CD	GLU	B	335	-6.919	38.887	93.899	1.00	39.52
ATOM	5894	OE1	GLU	B	335	-6.957	39.250	95.101	1.00	42.94
ATOM	5895	OE2	GLU	B	335	-7.845	38.265	93.330	1.00	39.55
ATOM	5896	N	LEU	B	336	-6.525	42.869	90.445	1.00	30.78
ATOM	5897	CA	LEU	B	336	-6.751	44.270	90.084	1.00	29.73
ATOM	5898	C	LEU	B	336	-8.010	44.474	89.264	1.00	28.98
ATOM	5899	O	LEU	B	336	-8.718	45.461	89.440	1.00	26.97
ATOM	5900	CB	LEU	B	336	-5.571	44.799	89.275	1.00	29.03
ATOM	5901	CG	LEU	B	336	-4.319	45.072	90.073	1.00	28.88
ATOM	5902	CD1	LEU	B	336	-3.244	45.499	89.098	1.00	29.97
ATOM	5903	CD2	LEU	B	336	-4.608	46.168	91.097	1.00	30.37
ATOM	5904	N	ALA	B	337	-8.252	43.560	88.320	1.00	29.20
ATOM	5905	CA	ALA	B	337	-9.432	43.657	87.465	1.00	30.58
ATOM	5906	C	ALA	B	337	-10.675	43.650	88.353	1.00	30.86
ATOM	5907	O	ALA	B	337	-11.596	44.429	88.142	1.00	29.93
ATOM	5908	CB	ALA	B	337	-9.491	42.466	86.444	1.00	27.84
ATOM	5909	N	ALA	B	338	-10.681	42.764	89.348	1.00	32.67
ATOM	5910	CA	ALA	B	338	-11.822	42.664	90.276	1.00	34.33
ATOM	5911	C	ALA	B	338	-12.067	44.004	90.967	1.00	35.82
ATOM	5912	O	ALA	B	338	-13.217	44.362	91.251	1.00	36.18
ATOM	5913	CB	ALA	B	338	-11.557	41.578	91.320	1.00	35.24

O  
C  
N  
C  
C  
O  
C  
C  
C  
N  
C  
C  
N  
C  
C  
O  
C  
C  
N  
N  
C  
C  
O  
C  
C  
C  
O  
N  
N  
C  
C  
O  
C  
C  
C  
N  
C  
C  
O  
C  
C  
N  
C  
C  
O  
C



ATOM	5914	N	MET	B	339	-10.983	44.749	91.220	1.00	35.29	N
ATOM	5915	CA	MET	B	339	-11.074	46.060	91.871	1.00	34.31	C
ATOM	5916	C	MET	B	339	-11.558	47.147	90.910	1.00	33.98	C
ATOM	5917	O	MET	B	339	-11.858	48.261	91.331	1.00	33.85	O
ATOM	5918	CB	MET	B	339	-9.707	46.468	92.408	1.00	34.21	C
ATOM	5919	CG	MET	B	339	-9.354	45.969	93.782	1.00	35.49	C
ATOM	5920	SD	MET	B	339	-7.549	45.958	94.054	1.00	36.23	S
ATOM	5921	CE	MET	B	339	-7.358	44.315	94.733	1.00	36.86	C
ATOM	5922	N	GLY	B	340	-11.620	46.848	89.612	1.00	32.58	N
ATOM	5923	CA	GLY	B	340	-12.055	47.874	88.678	1.00	30.36	C
ATOM	5924	C	GLY	B	340	-10.945	48.461	87.798	1.00	29.49	C
ATOM	5925	O	GLY	B	340	-11.149	49.472	87.128	1.00	27.83	O
ATOM	5926	N	PHE	B	341	-9.767	47.843	87.816	1.00	28.73	N
ATOM	5927	CA	PHE	B	341	-8.666	48.315	86.969	1.00	27.76	C
ATOM	5928	C	PHE	B	341	-8.842	47.584	85.638	1.00	26.23	C
ATOM	5929	O	PHE	B	341	-8.363	46.455	85.457	1.00	27.29	O
ATOM	5930	CB	PHE	B	341	-7.333	47.990	87.622	1.00	27.54	C
ATOM	5931	CG	PHE	B	341	-7.061	48.795	88.863	1.00	29.38	C
ATOM	5932	CD1	PHE	B	341	-6.645	50.119	88.771	1.00	29.12	C
ATOM	5933	CD2	PHE	B	341	-7.255	48.236	90.131	1.00	28.64	C
ATOM	5934	CE1	PHE	B	341	-6.422	50.881	89.919	1.00	29.91	C
ATOM	5935	CE2	PHE	B	341	-7.042	48.980	91.285	1.00	30.03	C
ATOM	5936	CZ	PHE	B	341	-6.620	50.314	91.183	1.00	31.00	C
ATOM	5937	N	LYS	B	342	-9.553	48.239	84.731	1.00	25.56	N
ATOM	5938	CA	LYS	B	342	-9.889	47.665	83.437	1.00	25.26	C
ATOM	5939	C	LYS	B	342	-8.858	47.753	82.318	1.00	25.93	C
ATOM	5940	O	LYS	B	342	-8.962	47.027	81.313	1.00	22.27	O
ATOM	5941	CB	LYS	B	342	-11.235	48.216	82.973	1.00	27.06	C
ATOM	5942	CG	LYS	B	342	-12.389	47.783	83.872	1.00	29.79	C
ATOM	5943	CD	LYS	B	342	-12.344	46.290	84.107	1.00	31.20	C
ATOM	5944	CE	LYS	B	342	-13.395	45.838	85.103	1.00	35.25	C
ATOM	5945	NZ	LYS	B	342	-13.239	44.390	85.453	1.00	36.62	N
ATOM	5946	N	PHE	B	343	-7.871	48.633	82.485	1.00	24.72	N
ATOM	5947	CA	PHE	B	343	-6.805	48.748	81.495	1.00	23.38	C
ATOM	5948	C	PHE	B	343	-5.506	48.571	82.275	1.00	22.99	C
ATOM	5949	O	PHE	B	343	-5.208	49.352	83.185	1.00	24.53	O
ATOM	5950	CB	PHE	B	343	-6.832	50.115	80.784	1.00	22.20	C
ATOM	5951	CG	PHE	B	343	-5.813	50.211	79.677	1.00	23.12	C
ATOM	5952	CD1	PHE	B	343	-5.819	49.280	78.636	1.00	21.74	C
ATOM	5953	CD2	PHE	B	343	-4.804	51.172	79.703	1.00	23.56	C
ATOM	5954	CE1	PHE	B	343	-4.833	49.302	77.640	1.00	24.54	C
ATOM	5955	CE2	PHE	B	343	-3.817	51.190	78.711	1.00	23.37	C
ATOM	5956	CZ	PHE	B	343	-3.831	50.257	77.685	1.00	20.98	C
ATOM	5957	N	GLN	B	344	-4.765	47.511	81.975	1.00	22.92	N
ATOM	5958	CA	GLN	B	344	-3.524	47.226	82.681	1.00	23.84	C
ATOM	5959	C	GLN	B	344	-2.423	47.126	81.654	1.00	24.22	C
ATOM	5960	O	GLN	B	344	-2.631	46.568	80.581	1.00	26.53	O
ATOM	5961	CB	GLN	B	344	-3.661	45.928	83.467	1.00	23.11	C
ATOM	5962	CG	GLN	B	344	-4.764	46.044	84.539	1.00	23.26	C
ATOM	5963	CD	GLN	B	344	-4.881	44.805	85.415	1.00	24.31	C
ATOM	5964	OE1	GLN	B	344	-5.973	44.447	85.831	1.00	25.85	O
ATOM	5965	NE2	GLN	B	344	-3.758	44.171	85.713	1.00	19.72	N
ATOM	5966	N	PHE	B	345	-1.234	47.615	81.981	1.00	22.84	N
ATOM	5967	CA	PHE	B	345	-0.201	47.619	80.966	1.00	21.32	C
ATOM	5968	C	PHE	B	345	1.194	47.585	81.534	1.00	20.77	C
ATOM	5969	O	PHE	B	345	1.432	48.101	82.626	1.00	21.20	O
ATOM	5970	CB	PHE	B	345	-0.381	48.857	80.058	1.00	22.25	C
ATOM	5971	CG	PHE	B	345	-0.521	50.171	80.812	1.00	21.49	C
ATOM	5972	CD1	PHE	B	345	-1.705	50.496	81.453	1.00	23.12	C
ATOM	5973	CD2	PHE	B	345	0.562	51.053	80.922	1.00	20.90	C
ATOM	5974	CE1	PHE	B	345	-1.832	51.670	82.203	1.00	22.28	C
ATOM	5975	CE2	PHE	B	345	0.461	52.246	81.678	1.00	20.29	C
ATOM	5976	CZ	PHE	B	345	-0.738	52.557	82.321	1.00	20.50	C
ATOM	5977	N	ILE	B	346	2.086	46.900	80.818	1.00	18.80	N
ATOM	5978	CA	ILE	B	346	3.500	46.845	81.211	1.00	18.76	C
ATOM	5979	C	ILE	B	346	4.155	47.899	80.297	1.00	18.70	C
ATOM	5980	O	ILE	B	346	4.450	47.662	79.113	1.00	17.59	O
ATOM	5981	CB	ILE	B	346	4.087	45.463	80.970	1.00	16.91	C
ATOM	5982	CG1	ILE	B	346	3.246	44.427	81.766	1.00	16.86	C
ATOM	5983	CG2	ILE	B	346	5.526	45.419	81.460	1.00	18.48	C
ATOM	5984	CD1	ILE	B	346	3.908	43.060	81.906	1.00	19.50	C
ATOM	5985	N	THR	B	347	4.309	49.096	80.849	1.00	19.87	N
ATOM	5986	CA	THR	B	347	4.867	50.221	80.093	1.00	19.60	C
ATOM	5987	C	THR	B	347	6.135	49.930	79.277	1.00	18.77	C
ATOM	5988	O	THR	B	347	6.206	50.193	78.083	1.00	16.12	O
ATOM	5989	CB	THR	B	347	5.195	51.381	81.064	1.00	20.24	C
ATOM	5990	OG1	THR	B	347	5.896	50.838	82.200	1.00	19.05	O
ATOM	5991	CG2	THR	B	347	3.897	52.074	81.549	1.00	20.94	C
ATOM	5992	N	LEU	B	348	7.143	49.389	79.941	1.00	19.69	N
ATOM	5993	CA	LEU	B	348	8.432	49.180	79.312	1.00	18.03	C



ATOM	5994	C	LEU	B	348	8.707	47.764	78.812	1.00	18.03	C
ATOM	5995	O	LEU	B	348	9.857	47.375	78.647	1.00	16.98	O
ATOM	5996	CB	LEU	B	348	9.514	49.617	80.309	1.00	17.79	C
ATOM	5997	CG	LEU	B	348	9.244	50.973	80.980	1.00	18.31	C
ATOM	5998	CD1	LEU	B	348	10.544	51.387	81.712	1.00	17.95	C
ATOM	5999	CD2	LEU	B	348	8.842	52.035	79.954	1.00	18.61	C
ATOM	6000	N	ALA	B	349	7.646	47.011	78.561	1.00	16.75	N
ATOM	6001	CA	ALA	B	349	7.793	45.622	78.085	1.00	17.52	C
ATOM	6002	C	ALA	B	349	8.703	45.497	76.847	1.00	17.44	C
ATOM	6003	O	ALA	B	349	9.610	44.620	76.768	1.00	18.14	O
ATOM	6004	CB	ALA	B	349	6.404	45.057	77.788	1.00	19.10	C
ATOM	6005	N	GLY	B	350	8.482	46.390	75.889	1.00	17.99	N
ATOM	6006	CA	GLY	B	350	9.266	46.359	74.663	1.00	17.81	C
ATOM	6007	C	GLY	B	350	10.727	46.668	74.826	1.00	16.15	C
ATOM	6008	O	GLY	B	350	11.566	45.997	74.223	1.00	17.41	O
ATOM	6009	N	PHE	B	351	11.040	47.704	75.619	1.00	16.26	N
ATOM	6010	CA	PHE	B	351	12.428	48.089	75.876	1.00	14.78	C
ATOM	6011	C	PHE	B	351	13.160	46.871	76.448	1.00	16.88	C
ATOM	6012	O	PHE	B	351	14.255	46.530	76.006	1.00	16.43	O
ATOM	6013	CB	PHE	B	351	12.495	49.241	76.903	1.00	15.18	C
ATOM	6014	CG	PHE	B	351	13.895	49.521	77.445	1.00	17.27	C
ATOM	6015	CD1	PHE	B	351	14.757	50.388	76.784	1.00	16.81	C
ATOM	6016	CD2	PHE	B	351	14.371	48.845	78.587	1.00	17.22	C
ATOM	6017	CE1	PHE	B	351	16.078	50.573	77.234	1.00	16.84	C
ATOM	6018	CE2	PHE	B	351	15.683	49.029	79.022	1.00	16.98	C
ATOM	6019	CZ	PHE	B	351	16.528	49.880	78.347	1.00	16.88	C
ATOM	6020	N	HIS	B	352	12.585	46.234	77.450	1.00	17.72	N
ATOM	6021	CA	HIS	B	352	13.284	45.068	78.017	1.00	16.88	C
ATOM	6022	C	HIS	B	352	13.333	43.834	77.109	1.00	16.95	C
ATOM	6023	O	HIS	B	352	14.364	43.191	77.027	1.00	17.00	O
ATOM	6024	CB	HIS	B	352	12.698	44.713	79.360	1.00	17.43	C
ATOM	6025	CG	HIS	B	352	13.028	45.710	80.417	1.00	17.44	C
ATOM	6026	ND1	HIS	B	352	14.262	45.753	81.032	1.00	17.46	N
ATOM	6027	CD2	HIS	B	352	12.306	46.725	80.933	1.00	17.84	C
ATOM	6028	CE1	HIS	B	352	14.279	46.755	81.889	1.00	17.81	C
ATOM	6029	NE2	HIS	B	352	13.104	47.359	81.846	1.00	18.58	N
ATOM	6030	N	ALA	B	353	12.242	43.511	76.430	1.00	17.46	N
ATOM	6031	CA	ALA	B	353	12.231	42.371	75.497	1.00	18.85	C
ATOM	6032	C	ALA	B	353	13.293	42.585	74.407	1.00	19.86	C
ATOM	6033	O	ALA	B	353	14.050	41.650	74.042	1.00	20.91	O
ATOM	6034	CB	ALA	B	353	10.868	42.249	74.876	1.00	17.44	C
ATOM	6035	N	LEU	B	354	13.369	43.818	73.877	1.00	18.12	N
ATOM	6036	CA	LEU	B	354	14.346	44.129	72.827	1.00	18.16	C
ATOM	6037	C	LEU	B	354	15.783	44.141	73.342	1.00	18.52	C
ATOM	6038	O	LEU	B	354	16.670	43.548	72.733	1.00	19.02	O
ATOM	6039	CB	LEU	B	354	14.048	45.506	72.159	1.00	17.66	C
ATOM	6040	CG	LEU	B	354	14.922	46.061	71.009	1.00	14.91	C
ATOM	6041	CD1	LEU	B	354	14.152	47.146	70.226	1.00	17.76	C
ATOM	6042	CD2	LEU	B	354	16.210	46.667	71.541	1.00	16.86	C
ATOM	6043	N	ASN	B	355	16.019	44.806	74.471	1.00	18.76	N
ATOM	6044	CA	ASN	B	355	17.381	44.900	74.974	1.00	19.40	C
ATOM	6045	C	ASN	B	355	17.928	43.541	75.416	1.00	18.85	C
ATOM	6046	O	ASN	B	355	19.052	43.201	75.100	1.00	20.21	O
ATOM	6047	CB	ASN	B	355	17.471	45.917	76.124	1.00	18.77	C
ATOM	6048	CG	ASN	B	355	17.616	47.377	75.619	1.00	18.45	C
ATOM	6049	OD1	ASN	B	355	18.723	47.888	75.472	1.00	19.30	O
ATOM	6050	ND2	ASN	B	355	16.491	48.027	75.354	1.00	16.63	N
ATOM	6051	N	TYR	B	356	17.102	42.765	76.093	1.00	18.90	N
ATOM	6052	CA	TYR	B	356	17.533	41.467	76.602	1.00	22.08	C
ATOM	6053	C	TYR	B	356	17.779	40.456	75.493	1.00	22.16	C
ATOM	6054	O	TYR	B	356	18.850	39.841	75.428	1.00	21.52	O
ATOM	6055	CB	TYR	B	356	16.503	40.915	77.599	1.00	21.58	C
ATOM	6056	CG	TYR	B	356	16.933	39.542	78.072	1.00	24.84	C
ATOM	6057	CD1	TYR	B	356	18.100	39.393	78.810	1.00	25.17	C
ATOM	6058	CD2	TYR	B	356	16.261	38.383	77.650	1.00	26.33	C
ATOM	6059	CE1	TYR	B	356	18.631	38.115	79.122	1.00	27.85	C
ATOM	6060	CE2	TYR	B	356	16.777	37.088	77.968	1.00	30.02	C
ATOM	6061	CZ	TYR	B	356	17.974	36.978	78.704	1.00	30.08	C
ATOM	6062	OH	TYR	B	356	18.541	35.737	79.012	1.00	31.42	O
ATOM	6063	N	SER	B	357	16.779	40.273	74.631	1.00	22.34	N
ATOM	6064	CA	SER	B	357	16.900	39.350	73.510	1.00	22.69	C
ATOM	6065	C	SER	B	357	18.134	39.641	72.668	1.00	22.91	C
ATOM	6066	O	SER	B	357	18.819	38.713	72.231	1.00	23.10	O
ATOM	6067	CB	SER	B	357	15.617	39.372	72.649	1.00	21.70	C
ATOM	6068	OG	SER	B	357	15.393	40.606	71.974	1.00	23.36	O
ATOM	6069	N	MET	B	358	18.464	40.919	72.452	1.00	22.19	N
ATOM	6070	CA	MET	B	358	19.650	41.225	71.664	1.00	22.49	C
ATOM	6071	C	MET	B	358	20.925	41.020	72.464	1.00	22.82	C
ATOM	6072	O	MET	B	358	21.938	40.598	71.889	1.00	21.76	O
ATOM	6073	CB	MET	B	358	19.609	42.651	71.069	1.00	20.36	C



ATOM	6074	CG	MET	B	358	20.803	42.945	70.118	1.00	20.55	C
ATOM	6075	SD	MET	B	358	21.058	41.696	68.778	1.00	21.56	S
ATOM	6076	CE	MET	B	358	19.529	41.949	67.799	1.00	22.01	C
ATOM	6077	N	PHE	B	359	20.898	41.314	73.775	1.00	22.67	N
ATOM	6078	CA	PHE	B	359	22.103	41.084	74.577	1.00	22.78	C
ATOM	6079	C	PHE	B	359	22.371	39.574	74.528	1.00	23.69	C
ATOM	6080	O	PHE	B	359	23.499	39.140	74.245	1.00	23.96	O
ATOM	6081	CB	PHE	B	359	21.933	41.498	76.055	1.00	21.84	C
ATOM	6082	CG	PHE	B	359	23.125	41.106	76.930	1.00	24.11	C
ATOM	6083	CD1	PHE	B	359	24.333	41.792	76.845	1.00	24.04	C
ATOM	6084	CD2	PHE	B	359	23.053	39.989	77.757	1.00	24.73	C
ATOM	6085	CE1	PHE	B	359	25.464	41.370	77.562	1.00	24.53	C
ATOM	6086	CE2	PHE	B	359	24.171	39.547	78.484	1.00	24.96	C
ATOM	6087	CZ	PHE	B	359	25.380	40.240	78.384	1.00	25.65	C
ATOM	6088	N	ASP	B	360	21.315	38.806	74.768	1.00	19.90	N
ATOM	6089	CA	ASP	B	360	21.415	37.348	74.787	1.00	25.21	C
ATOM	6090	C	ASP	B	360	21.908	36.722	73.474	1.00	24.98	C
ATOM	6091	O	ASP	B	360	22.768	35.813	73.472	1.00	25.31	O
ATOM	6092	CB	ASP	B	360	20.068	36.746	75.159	1.00	24.69	C
ATOM	6093	CG	ASP	B	360	20.165	35.258	75.420	1.00	28.46	C
ATOM	6094	OD1	ASP	B	360	21.072	34.861	76.190	1.00	26.75	O
ATOM	6095	OD2	ASP	B	360	19.334	34.506	74.863	1.00	28.06	O
ATOM	6096	N	LEU	B	361	21.369	37.189	72.357	1.00	23.83	N
ATOM	6097	CA	LEU	B	361	21.803	36.681	71.062	1.00	23.70	C
ATOM	6098	C	LEU	B	361	23.241	37.089	70.774	1.00	23.87	C
ATOM	6099	O	LEU	B	361	24.080	36.284	70.342	1.00	24.12	O
ATOM	6100	CB	LEU	B	361	20.893	37.234	69.952	1.00	23.14	C
ATOM	6101	CG	LEU	B	361	21.333	36.873	68.529	1.00	23.78	C
ATOM	6102	CD1	LEU	B	361	21.335	35.321	68.345	1.00	20.10	C
ATOM	6103	CD2	LEU	B	361	20.364	37.490	67.506	1.00	19.77	C
ATOM	6104	N	ALA	B	362	23.534	38.358	71.004	1.00	21.92	N
ATOM	6105	CA	ALA	B	362	24.858	38.852	70.728	1.00	23.42	C
ATOM	6106	C	ALA	B	362	25.925	38.224	71.640	1.00	25.17	C
ATOM	6107	O	ALA	B	362	27.041	37.962	71.185	1.00	26.60	O
ATOM	6108	CB	ALA	B	362	24.873	40.365	70.843	1.00	22.18	C
ATOM	6109	N	TYR	B	363	25.601	37.989	72.910	1.00	27.20	N
ATOM	6110	CA	TYR	B	363	26.598	37.407	73.826	1.00	29.36	C
ATOM	6111	C	TYR	B	363	26.956	36.007	73.303	1.00	29.44	C
ATOM	6112	O	TYR	B	363	28.126	35.652	73.200	1.00	29.79	O
ATOM	6113	CB	TYR	B	363	26.049	37.314	75.251	1.00	31.35	C
ATOM	6114	CG	TYR	B	363	27.092	36.858	76.263	1.00	33.87	C
ATOM	6115	CD1	TYR	B	363	28.063	37.741	76.744	1.00	35.44	C
ATOM	6116	CD2	TYR	B	363	27.135	35.525	76.698	1.00	36.18	C
ATOM	6117	CE1	TYR	B	363	29.059	37.307	77.638	1.00	36.70	C
ATOM	6118	CE2	TYR	B	363	28.120	35.081	77.589	1.00	35.21	C
ATOM	6119	CZ	TYR	B	363	29.075	35.970	78.053	1.00	37.67	C
ATOM	6120	OH	TYR	B	363	30.049	35.538	78.947	1.00	38.53	O
ATOM	6121	N	GLY	B	364	25.930	35.234	72.971	1.00	29.25	N
ATOM	6122	CA	GLY	B	364	26.133	33.899	72.431	1.00	29.73	C
ATOM	6123	C	GLY	B	364	26.899	33.984	71.133	1.00	29.29	C
ATOM	6124	O	GLY	B	364	27.885	33.261	70.911	1.00	27.97	O
ATOM	6125	N	TYR	B	365	26.470	34.891	70.262	1.00	27.78	N
ATOM	6126	CA	TYR	B	365	27.141	35.042	68.984	1.00	26.99	C
ATOM	6127	C	TYR	B	365	28.601	35.410	69.204	1.00	27.82	C
ATOM	6128	O	TYR	B	365	29.466	34.986	68.439	1.00	29.47	O
ATOM	6129	CB	TYR	B	365	26.424	36.106	68.147	1.00	25.66	C
ATOM	6130	CG	TYR	B	365	26.988	36.370	66.760	1.00	24.66	C
ATOM	6131	CD1	TYR	B	365	26.814	35.453	65.720	1.00	24.63	C
ATOM	6132	CD2	TYR	B	365	27.563	37.610	66.453	1.00	24.19	C
ATOM	6133	CE1	TYR	B	365	27.180	35.775	64.404	1.00	23.68	C
ATOM	6134	CE2	TYR	B	365	27.930	37.939	65.150	1.00	25.53	C
ATOM	6135	CZ	TYR	B	365	27.725	37.010	64.123	1.00	25.22	C
ATOM	6136	OH	TYR	B	365	28.013	37.377	62.822	1.00	24.73	O
ATOM	6137	N	ALA	B	366	28.908	36.174	70.254	1.00	28.20	N
ATOM	6138	CA	ALA	B	366	30.311	36.533	70.462	1.00	30.17	C
ATOM	6139	C	ALA	B	366	31.135	35.271	70.799	1.00	31.85	C
ATOM	6140	O	ALA	B	366	32.302	35.164	70.447	1.00	32.42	O
ATOM	6141	CB	ALA	B	366	30.457	37.590	71.598	1.00	30.48	C
ATOM	6142	N	GLN	B	367	30.512	34.303	71.441	1.00	33.93	N
ATOM	6143	CA	GLN	B	367	31.239	33.098	71.831	1.00	36.37	C
ATOM	6144	C	GLN	B	367	31.256	31.936	70.823	1.00	36.86	C
ATOM	6145	O	GLN	B	367	32.298	31.297	70.644	1.00	36.51	O
ATOM	6146	CB	GLN	B	367	30.700	32.586	73.172	1.00	38.21	C
ATOM	6147	CG	GLN	B	367	30.730	33.641	74.281	1.00	43.53	C
ATOM	6148	CD	GLN	B	367	32.150	34.022	74.695	1.00	46.13	C
ATOM	6149	OE1	GLN	B	367	32.841	33.246	75.376	1.00	49.68	O
ATOM	6150	NE2	GLN	B	367	32.599	35.206	74.276	1.00	46.10	N
ATOM	6151	N	ASN	B	368	30.116	31.683	70.179	1.00	35.37	N
ATOM	6152	CA	ASN	B	368	29.946	30.575	69.239	1.00	35.07	C
ATOM	6153	C	ASN	B	368	29.536	30.898	67.797	1.00	32.87	C



ATOM	6154	O	ASN	B	368	29.189	29.989	67.042	1.00	31.07	O
ATOM	6155	CB	ASN	B	368	28.871	29.653	69.780	1.00	38.45	C
ATOM	6156	CG	ASN	B	368	29.247	29.034	71.071	1.00	43.47	C
ATOM	6157	OD1	ASN	B	368	29.937	29.642	71.907	1.00	45.92	O
ATOM	6158	ND2	ASN	B	368	28.786	27.811	71.271	1.00	44.77	N
ATOM	6159	N	GLN	B	369	29.535	32.170	67.422	1.00	31.34	N
ATOM	6160	CA	GLN	B	369	29.110	32.560	66.082	1.00	29.06	C
ATOM	6161	C	GLN	B	369	27.774	31.933	65.657	1.00	28.54	C
ATOM	6162	O	GLN	B	369	26.774	31.999	66.392	1.00	27.21	O
ATOM	6163	CB	GLN	B	369	30.209	32.247	65.081	1.00	30.84	C
ATOM	6164	CG	GLN	B	369	31.485	33.056	65.335	1.00	32.97	C
ATOM	6165	CD	GLN	B	369	32.381	32.438	66.398	1.00	35.55	C
ATOM	6166	OE1	GLN	B	369	32.578	32.990	67.494	1.00	36.64	O
ATOM	6167	NE2	GLN	B	369	32.916	31.281	66.085	1.00	33.79	N
ATOM	6168	N	MET	B	370	27.725	31.262	64.507	1.00	27.95	N
ATOM	6169	CA	MET	B	370	26.431	30.726	64.088	1.00	25.71	C
ATOM	6170	C	MET	B	370	25.657	29.819	65.025	1.00	27.64	C
ATOM	6171	O	MET	B	370	24.414	29.828	64.988	1.00	26.47	O
ATOM	6172	CB	MET	B	370	26.541	30.087	62.696	1.00	26.03	C
ATOM	6173	CG	MET	B	370	27.120	31.036	61.623	1.00	24.71	C
ATOM	6174	SD	MET	B	370	26.176	32.646	61.500	1.00	25.42	S
ATOM	6175	CE	MET	B	370	24.544	31.931	61.635	1.00	20.57	C
ATOM	6176	N	SER	B	371	26.326	29.036	65.886	1.00	27.04	N
ATOM	6177	CA	SER	B	371	25.542	28.176	66.786	1.00	27.52	C
ATOM	6178	C	SER	B	371	24.487	28.988	67.592	1.00	26.72	C
ATOM	6179	O	SER	B	371	23.335	28.551	67.764	1.00	26.58	O
ATOM	6180	CB	SER	B	371	26.468	27.422	67.761	1.00	27.62	C
ATOM	6181	OG	SER	B	371	27.442	26.678	67.054	1.00	29.02	O
ATOM	6182	N	ALA	B	372	24.875	30.165	68.083	1.00	27.64	N
ATOM	6183	CA	ALA	B	372	23.936	30.979	68.873	1.00	27.39	C
ATOM	6184	C	ALA	B	372	22.757	31.455	68.026	1.00	26.35	C
ATOM	6185	O	ALA	B	372	21.616	31.448	68.484	1.00	25.92	O
ATOM	6186	CB	ALA	B	372	24.651	32.170	69.507	1.00	26.70	C
ATOM	6187	N	TYR	B	373	22.997	31.844	66.783	1.00	26.42	N
ATOM	6188	CA	TYR	B	373	21.841	32.271	65.995	1.00	25.12	C
ATOM	6189	C	TYR	B	373	20.952	31.112	65.640	1.00	25.70	C
ATOM	6190	O	TYR	B	373	19.720	31.219	65.684	1.00	23.53	O
ATOM	6191	CB	TYR	B	373	22.239	32.982	64.720	1.00	26.07	C
ATOM	6192	CG	TYR	B	373	21.014	33.568	64.086	1.00	28.08	C
ATOM	6193	CD1	TYR	B	373	20.417	34.722	64.617	1.00	27.51	C
ATOM	6194	CD2	TYR	B	373	20.373	32.920	63.025	1.00	26.09	C
ATOM	6195	CE1	TYR	B	373	19.214	35.195	64.101	1.00	28.35	C
ATOM	6196	CE2	TYR	B	373	19.180	33.393	62.515	1.00	28.21	C
ATOM	6197	CZ	TYR	B	373	18.606	34.520	63.052	1.00	27.99	C
ATOM	6198	OH	TYR	B	373	17.409	34.956	62.551	1.00	28.05	O
ATOM	6199	N	VAL	B	374	21.565	29.971	65.298	1.00	26.90	N
ATOM	6200	CA	VAL	B	374	20.763	28.792	64.970	1.00	26.59	C
ATOM	6201	C	VAL	B	374	19.824	28.427	66.123	1.00	25.23	C
ATOM	6202	O	VAL	B	374	18.675	28.075	65.892	1.00	24.52	O
ATOM	6203	CB	VAL	B	374	21.674	27.594	64.563	1.00	27.58	C
ATOM	6204	CG1	VAL	B	374	20.818	26.291	64.371	1.00	27.64	C
ATOM	6205	CG2	VAL	B	374	22.373	27.941	63.238	1.00	25.63	C
ATOM	6206	N	GLU	B	375	20.291	28.536	67.367	1.00	26.23	N
ATOM	6207	CA	GLU	B	375	19.440	28.249	68.532	1.00	27.21	C
ATOM	6208	C	GLU	B	375	18.187	29.112	68.513	1.00	26.82	C
ATOM	6209	O	GLU	B	375	17.101	28.711	68.946	1.00	27.87	O
ATOM	6210	CB	GLU	B	375	20.158	28.572	69.846	1.00	31.38	C
ATOM	6211	CG	GLU	B	375	21.224	27.614	70.295	1.00	36.54	C
ATOM	6212	CD	GLU	B	375	21.966	28.159	71.523	1.00	40.71	C
ATOM	6213	OE1	GLU	B	375	21.295	28.713	72.430	1.00	42.02	O
ATOM	6214	OE2	GLU	B	375	23.217	28.034	71.582	1.00	43.98	O
ATOM	6215	N	LEU	B	376	18.339	30.344	68.053	1.00	27.49	N
ATOM	6216	CA	LEU	B	376	17.184	31.226	67.995	1.00	24.37	C
ATOM	6217	C	LEU	B	376	16.244	30.798	66.867	1.00	23.95	C
ATOM	6218	O	LEU	B	376	15.029	30.707	67.058	1.00	21.85	O
ATOM	6219	CB	LEU	B	376	17.647	32.677	67.776	1.00	24.88	C
ATOM	6220	CG	LEU	B	376	16.517	33.678	67.470	1.00	23.63	C
ATOM	6221	CD1	LEU	B	376	15.416	33.580	68.535	1.00	20.20	C
ATOM	6222	CD2	LEU	B	376	17.075	35.091	67.364	1.00	22.44	C
ATOM	6223	N	GLN	B	377	16.810	30.542	65.689	1.00	24.36	N
ATOM	6224	CA	GLN	B	377	15.996	30.136	64.555	1.00	25.61	C
ATOM	6225	C	GLN	B	377	15.200	28.866	64.901	1.00	26.37	C
ATOM	6226	O	GLN	B	377	14.030	28.720	64.522	1.00	23.59	O
ATOM	6227	CB	GLN	B	377	16.870	29.911	63.305	1.00	25.88	C
ATOM	6228	CG	GLN	B	377	16.069	29.567	62.027	1.00	26.81	C
ATOM	6229	CD	GLN	B	377	16.911	29.603	60.740	1.00	28.50	C
ATOM	6230	OE1	GLN	B	377	16.604	30.373	59.817	1.00	25.52	O
ATOM	6231	NE2	GLN	B	377	17.969	28.761	60.665	1.00	24.98	N
ATOM	6232	N	GLU	B	378	15.823	27.957	65.655	1.00	27.99	N
ATOM	6233	CA	GLU	B	378	15.122	26.737	66.024	1.00	28.57	C



ATOM	6234	C	GLU	B	378	14.012	27.068	66.990	1.00	27.70	C
ATOM	6235	O	GLU	B	378	12.922	26.504	66.922	1.00	26.33	O
ATOM	6236	CB	GLU	B	378	16.090	25.720	66.624	1.00	30.03	C
ATOM	6237	CG	GLU	B	378	16.943	25.010	65.592	1.00	31.34	C
ATOM	6238	CD	GLU	B	378	16.118	24.372	64.449	1.00	33.80	C
ATOM	6239	OE1	GLU	B	378	15.093	23.674	64.709	1.00	35.40	O
ATOM	6240	OE2	GLU	B	378	16.511	24.560	63.277	1.00	33.44	O
ATOM	6241	N	ARG	B	379	14.279	28.011	67.892	1.00	29.13	N
ATOM	6242	CA	ARG	B	379	13.246	28.404	68.837	1.00	28.05	C
ATOM	6243	C	ARG	B	379	12.069	28.981	68.075	1.00	26.13	C
ATOM	6244	O	ARG	B	379	10.918	28.775	68.460	1.00	23.97	O
ATOM	6245	CB	ARG	B	379	13.775	29.439	69.826	1.00	30.64	C
ATOM	6246	CG	ARG	B	379	14.711	28.860	70.875	1.00	33.64	C
ATOM	6247	CD	ARG	B	379	14.567	29.593	72.210	1.00	36.19	C
ATOM	6248	NE	ARG	B	379	15.007	30.983	72.149	1.00	39.06	N
ATOM	6249	CZ	ARG	B	379	16.278	31.373	72.085	1.00	40.27	C
ATOM	6250	NH1	ARG	B	379	17.266	30.472	72.072	1.00	42.57	N
ATOM	6251	NH2	ARG	B	379	16.561	32.671	72.039	1.00	40.49	N
ATOM	6252	N	GLU	B	380	12.365	29.752	67.020	1.00	25.61	N
ATOM	6253	CA	GLU	B	380	11.308	30.332	66.199	1.00	25.51	C
ATOM	6254	C	GLU	B	380	10.510	29.214	65.547	1.00	25.45	C
ATOM	6255	O	GLU	B	380	9.280	29.216	65.558	1.00	23.57	O
ATOM	6256	CB	GLU	B	380	11.901	31.216	65.109	1.00	25.77	C
ATOM	6257	CG	GLU	B	380	12.492	32.506	65.651	1.00	27.26	C
ATOM	6258	CD	GLU	B	380	12.921	33.434	64.560	1.00	27.33	C
ATOM	6259	OE1	GLU	B	380	14.064	33.292	64.054	1.00	27.40	O
ATOM	6260	OE2	GLU	B	380	12.098	34.301	64.207	1.00	28.57	O
ATOM	6261	N	PHE	B	381	11.222	28.267	64.948	1.00	26.07	N
ATOM	6262	CA	PHE	B	381	10.518	27.140	64.339	1.00	29.17	C
ATOM	6263	C	PHE	B	381	9.600	26.456	65.348	1.00	28.81	C
ATOM	6264	O	PHE	B	381	8.413	26.205	65.079	1.00	29.21	O
ATOM	6265	CB	PHE	B	381	11.516	26.130	63.787	1.00	29.79	C
ATOM	6266	CG	PHE	B	381	12.079	26.521	62.462	1.00	30.21	C
ATOM	6267	CD1	PHE	B	381	11.233	26.957	61.443	1.00	29.09	C
ATOM	6268	CD2	PHE	B	381	13.440	26.479	62.235	1.00	28.24	C
ATOM	6269	CE1	PHE	B	381	11.749	27.350	60.219	1.00	30.33	C
ATOM	6270	CE2	PHE	B	381	13.962	26.872	61.005	1.00	29.70	C
ATOM	6271	CZ	PHE	B	381	13.115	27.308	60.004	1.00	28.81	C
ATOM	6272	N	ALA	B	382	10.147	26.177	66.527	1.00	30.84	N
ATOM	6273	CA	ALA	B	382	9.385	25.511	67.574	1.00	30.93	C
ATOM	6274	C	ALA	B	382	8.162	26.323	67.989	1.00	32.04	C
ATOM	6275	O	ALA	B	382	7.148	25.760	68.387	1.00	32.41	O
ATOM	6276	CB	ALA	B	382	10.268	25.269	68.768	1.00	31.72	C
ATOM	6277	N	ALA	B	383	8.253	27.650	67.892	1.00	31.45	N
ATOM	6278	CA	ALA	B	383	7.149	28.499	68.301	1.00	29.80	C
ATOM	6279	C	ALA	B	383	6.009	28.511	67.300	1.00	31.03	C
ATOM	6280	O	ALA	B	383	4.928	29.029	67.591	1.00	28.05	O
ATOM	6281	CB	ALA	B	383	7.650	29.926	68.532	1.00	28.82	C
ATOM	6282	N	GLU	B	384	6.241	27.947	66.116	1.00	32.52	N
ATOM	6283	CA	GLU	B	384	5.201	27.941	65.101	1.00	35.43	C
ATOM	6284	C	GLU	B	384	3.948	27.216	65.585	1.00	36.23	C
ATOM	6285	O	GLU	B	384	2.827	27.607	65.250	1.00	35.87	O
ATOM	6286	CB	GLU	B	384	5.747	27.347	63.786	1.00	36.44	C
ATOM	6287	CG	GLU	B	384	6.996	28.102	63.291	1.00	37.72	C
ATOM	6288	CD	GLU	B	384	7.458	27.700	61.909	1.00	39.38	C
ATOM	6289	OE1	GLU	B	384	7.328	26.521	61.555	1.00	40.12	O
ATOM	6290	OE2	GLU	B	384	7.982	28.560	61.174	1.00	40.27	O
ATOM	6291	N	GLU	B	385	4.131	26.183	66.406	1.00	38.25	N
ATOM	6292	CA	GLU	B	385	2.978	25.459	66.914	1.00	40.19	C
ATOM	6293	C	GLU	B	385	2.164	26.351	67.823	1.00	39.68	C
ATOM	6294	O	GLU	B	385	0.975	26.108	68.033	1.00	40.14	O
ATOM	6295	CB	GLU	B	385	3.396	24.167	67.635	1.00	43.18	C
ATOM	6296	CG	GLU	B	385	4.695	24.219	68.417	1.00	47.03	C
ATOM	6297	CD	GLU	B	385	5.387	22.849	68.476	1.00	49.89	C
ATOM	6298	OE1	GLU	B	385	4.686	21.824	68.299	1.00	49.46	O
ATOM	6299	OE2	GLU	B	385	6.623	22.799	68.705	1.00	50.35	O
ATOM	6300	N	ARG	B	386	2.801	27.406	68.329	1.00	38.28	N
ATOM	6301	CA	ARG	B	386	2.141	28.374	69.199	1.00	38.14	C
ATOM	6302	C	ARG	B	386	1.447	29.521	68.435	1.00	36.27	C
ATOM	6303	O	ARG	B	386	0.714	30.313	69.033	1.00	34.79	O
ATOM	6304	CB	ARG	B	386	3.147	28.958	70.213	1.00	39.02	C
ATOM	6305	CG	ARG	B	386	3.424	28.058	71.421	1.00	41.65	C
ATOM	6306	CD	ARG	B	386	4.131	28.816	72.555	1.00	43.32	C
ATOM	6307	NE	ARG	B	386	5.537	29.110	72.270	1.00	45.28	N
ATOM	6308	CZ	ARG	B	386	6.161	30.215	72.678	1.00	45.24	C
ATOM	6309	NH1	ARG	B	386	5.503	31.123	73.386	1.00	44.23	N
ATOM	6310	NH2	ARG	B	386	7.435	30.416	72.371	1.00	46.04	N
ATOM	6311	N	GLY	B	387	1.683	29.605	67.122	1.00	34.91	N
ATOM	6312	CA	GLY	B	387	1.064	30.655	66.322	1.00	31.95	C
ATOM	6313	C	GLY	B	387	2.055	31.645	65.713	1.00	29.74	C



ATOM	6314	O	GLY	B	387	1.670	32.463	64.881	1.00	29.13	O
ATOM	6315	N	TYR	B	388	3.329	31.558	66.108	1.00	28.74	N
ATOM	6316	CA	TYR	B	388	4.375	32.453	65.602	1.00	26.22	C
ATOM	6317	C	TYR	B	388	4.582	32.257	64.114	1.00	26.03	C
ATOM	6318	O	TYR	B	388	4.774	31.125	63.656	1.00	24.83	O
ATOM	6319	CB	TYR	B	388	5.697	32.166	66.291	1.00	25.58	C
ATOM	6320	CG	TYR	B	388	6.816	33.078	65.865	1.00	24.56	C
ATOM	6321	CD1	TYR	B	388	6.799	34.448	66.194	1.00	26.28	C
ATOM	6322	CD2	TYR	B	388	7.942	32.574	65.254	1.00	23.41	C
ATOM	6323	CE1	TYR	B	388	7.900	35.272	65.941	1.00	23.33	C
ATOM	6324	CE2	TYR	B	388	9.032	33.375	64.988	1.00	24.91	C
ATOM	6325	CZ	TYR	B	388	9.008	34.735	65.350	1.00	25.77	C
ATOM	6326	OH	TYR	B	388	10.151	35.476	65.177	1.00	23.55	O
ATOM	6327	N	THR	B	389	4.627	33.356	63.360	1.00	22.85	N
ATOM	6328	CA	THR	B	389	4.775	33.281	61.903	1.00	23.90	C
ATOM	6329	C	THR	B	389	5.995	33.978	61.293	1.00	21.98	C
ATOM	6330	O	THR	B	389	6.304	33.772	60.120	1.00	21.19	O
ATOM	6331	CB	THR	B	389	3.538	33.913	61.217	1.00	23.79	C
ATOM	6332	OG1	THR	B	389	3.486	35.303	61.562	1.00	23.26	O
ATOM	6333	CG2	THR	B	389	2.246	33.257	61.721	1.00	25.97	C
ATOM	6334	N	ALA	B	390	6.689	34.791	62.083	1.00	23.19	N
ATOM	6335	CA	ALA	B	390	7.830	35.557	61.562	1.00	21.28	C
ATOM	6336	C	ALA	B	390	9.092	34.791	61.155	1.00	23.04	C
ATOM	6337	O	ALA	B	390	10.013	35.382	60.611	1.00	21.55	O
ATOM	6338	CB	ALA	B	390	8.180	36.637	62.519	1.00	18.66	C
ATOM	6339	N	THR	B	391	9.167	33.478	61.381	1.00	21.12	N
ATOM	6340	CA	THR	B	391	10.371	32.797	60.931	1.00	21.86	C
ATOM	6341	C	THR	B	391	10.445	32.920	59.395	1.00	21.37	C
ATOM	6342	O	THR	B	391	11.550	32.951	58.820	1.00	20.38	O
ATOM	6343	CB	THR	B	391	10.392	31.277	61.318	1.00	23.07	C
ATOM	6344	OG1	THR	B	391	10.000	31.127	62.692	1.00	23.17	O
ATOM	6345	CG2	THR	B	391	11.823	30.729	61.127	1.00	23.21	C
ATOM	6346	N	LYS	B	392	9.274	32.965	58.739	1.00	20.55	N
ATOM	6347	CA	LYS	B	392	9.207	33.154	57.286	1.00	19.60	C
ATOM	6348	C	LYS	B	392	9.056	34.674	57.191	1.00	20.37	C
ATOM	6349	O	LYS	B	392	7.965	35.219	57.054	1.00	16.93	O
ATOM	6350	CB	LYS	B	392	7.991	32.471	56.680	1.00	22.47	C
ATOM	6351	CG	LYS	B	392	8.087	30.943	56.721	1.00	24.26	C
ATOM	6352	CD	LYS	B	392	7.466	30.314	55.511	1.00	28.50	C
ATOM	6353	CE	LYS	B	392	5.962	30.443	55.498	1.00	31.88	C
ATOM	6354	NZ	LYS	B	392	5.453	30.010	54.147	1.00	35.56	N
ATOM	6355	N	HIS	B	393	10.191	35.331	57.282	1.00	19.11	N
ATOM	6356	CA	HIS	B	393	10.190	36.764	57.298	1.00	19.44	C
ATOM	6357	C	HIS	B	393	9.731	37.509	56.025	1.00	20.24	C
ATOM	6358	O	HIS	B	393	9.197	38.613	56.169	1.00	16.71	O
ATOM	6359	CB	HIS	B	393	11.567	37.246	57.703	1.00	19.12	C
ATOM	6360	CG	HIS	B	393	12.672	36.666	56.889	1.00	22.27	C
ATOM	6361	ND1	HIS	B	393	13.618	35.822	57.431	1.00	22.14	N
ATOM	6362	CD2	HIS	B	393	13.023	36.853	55.591	1.00	20.49	C
ATOM	6363	CE1	HIS	B	393	14.516	35.526	56.504	1.00	23.72	C
ATOM	6364	NE2	HIS	B	393	14.180	36.142	55.381	1.00	22.69	N
ATOM	6365	N	GLN	B	394	9.934	36.942	54.817	1.00	18.43	N
ATOM	6366	CA	GLN	B	394	9.556	37.663	53.577	1.00	17.98	C
ATOM	6367	C	GLN	B	394	8.048	37.897	53.575	1.00	17.81	C
ATOM	6368	O	GLN	B	394	7.564	39.028	53.429	1.00	17.80	O
ATOM	6369	CB	GLN	B	394	9.962	36.858	52.330	1.00	16.82	C
ATOM	6370	CG	GLN	B	394	11.439	36.340	52.312	1.00	17.37	C
ATOM	6371	CD	GLN	B	394	12.488	37.454	52.254	1.00	16.79	C
ATOM	6372	OE1	GLN	B	394	12.184	38.616	52.498	1.00	16.15	O
ATOM	6373	NE2	GLN	B	394	13.741	37.090	51.959	1.00	17.04	N
ATOM	6374	N	ARG	B	395	7.280	36.826	53.767	1.00	18.60	N
ATOM	6375	CA	ARG	B	395	5.843	37.009	53.796	1.00	18.21	C
ATOM	6376	C	ARG	B	395	5.398	37.852	54.980	1.00	16.19	C
ATOM	6377	O	ARG	B	395	4.367	38.540	54.893	1.00	15.41	O
ATOM	6378	CB	ARG	B	395	5.091	35.659	53.855	1.00	18.92	C
ATOM	6379	CG	ARG	B	395	5.572	34.718	54.975	1.00	20.51	C
ATOM	6380	CD	ARG	B	395	4.428	33.871	55.514	1.00	21.87	C
ATOM	6381	NE	ARG	B	395	3.374	34.689	56.110	1.00	22.29	N
ATOM	6382	CZ	ARG	B	395	3.495	35.364	57.255	1.00	21.73	C
ATOM	6383	NH1	ARG	B	395	4.633	35.328	57.951	1.00	18.88	N
ATOM	6384	NH2	ARG	B	395	2.474	36.078	57.703	1.00	20.15	N
ATOM	6385	N	GLU	B	396	6.156	37.799	56.070	1.00	15.11	N
ATOM	6386	CA	GLU	B	396	5.794	38.512	57.293	1.00	16.56	C
ATOM	6387	C	GLU	B	396	5.787	40.006	57.045	1.00	16.87	C
ATOM	6388	O	GLU	B	396	4.971	40.719	57.621	1.00	17.86	O
ATOM	6389	CB	GLU	B	396	6.781	38.196	58.439	1.00	17.29	C
ATOM	6390	CG	GLU	B	396	6.432	38.800	59.832	1.00	17.45	C
ATOM	6391	CD	GLU	B	396	5.300	38.085	60.592	1.00	21.92	C
ATOM	6392	OE1	GLU	B	396	4.938	36.947	60.214	1.00	20.10	O
ATOM	6393	OE2	GLU	B	396	4.792	38.651	61.604	1.00	21.80	O



ATOM	6394	N	VAL	B	397	6.719	40.472	56.222	1.00	17.93	N
ATOM	6395	CA	VAL	B	397	6.800	41.905	55.943	1.00	18.58	C
ATOM	6396	C	VAL	B	397	6.046	42.317	54.673	1.00	18.44	C
ATOM	6397	O	VAL	B	397	6.116	43.482	54.237	1.00	17.14	O
ATOM	6398	CB	VAL	B	397	8.289	42.349	55.968	1.00	20.08	C
ATOM	6399	CG1	VAL	B	397	9.103	41.715	54.846	1.00	20.80	C
ATOM	6400	CG2	VAL	B	397	8.368	43.817	55.895	1.00	27.17	C
ATOM	6401	N	GLY	B	398	5.320	41.356	54.073	1.00	16.43	N
ATOM	6402	CA	GLY	B	398	4.505	41.673	52.904	1.00	15.64	C
ATOM	6403	C	GLY	B	398	4.985	41.297	51.511	1.00	15.35	C
ATOM	6404	O	GLY	B	398	4.424	41.789	50.551	1.00	17.03	O
ATOM	6405	N	ALA	B	399	6.025	40.456	51.395	1.00	17.25	N
ATOM	6406	CA	ALA	B	399	6.540	40.058	50.066	1.00	16.02	C
ATOM	6407	C	ALA	B	399	5.408	39.472	49.224	1.00	16.53	C
ATOM	6408	O	ALA	B	399	5.320	39.714	48.014	1.00	15.89	O
ATOM	6409	CB	ALA	B	399	7.670	39.031	50.210	1.00	19.22	C
ATOM	6410	N	GLY	B	400	4.523	38.713	49.867	1.00	17.25	N
ATOM	6411	CA	GLY	B	400	3.427	38.143	49.118	1.00	16.66	C
ATOM	6412	C	GLY	B	400	2.356	39.154	48.782	1.00	15.48	C
ATOM	6413	O	GLY	B	400	1.680	39.047	47.771	1.00	16.86	O
ATOM	6414	N	TYR	B	401	2.180	40.156	49.635	1.00	15.99	N
ATOM	6415	CA	TYR	B	401	1.180	41.168	49.370	1.00	16.43	C
ATOM	6416	C	TYR	B	401	1.658	42.087	48.223	1.00	16.86	C
ATOM	6417	O	TYR	B	401	0.876	42.483	47.332	1.00	16.26	O
ATOM	6418	CB	TYR	B	401	0.929	41.968	50.652	1.00	15.68	C
ATOM	6419	CG	TYR	B	401	-0.047	43.092	50.482	1.00	15.87	C
ATOM	6420	CD1	TYR	B	401	-1.424	42.864	50.418	1.00	13.11	C
ATOM	6421	CD2	TYR	B	401	0.408	44.404	50.365	1.00	16.97	C
ATOM	6422	CE1	TYR	B	401	-2.312	43.914	50.225	1.00	13.52	C
ATOM	6423	CE2	TYR	B	401	-0.458	45.463	50.195	1.00	14.76	C
ATOM	6424	CZ	TYR	B	401	-1.816	45.230	50.117	1.00	17.90	C
ATOM	6425	OH	TYR	B	401	-2.655	46.305	49.925	1.00	16.05	O
ATOM	6426	N	PHE	B	402	2.940	42.439	48.225	1.00	14.85	N
ATOM	6427	CA	PHE	B	402	3.379	43.260	47.131	1.00	15.63	C
ATOM	6428	C	PHE	B	402	3.419	42.446	45.831	1.00	16.51	C
ATOM	6429	O	PHE	B	402	3.214	42.998	44.745	1.00	14.57	O
ATOM	6430	CB	PHE	B	402	4.699	43.938	47.471	1.00	16.16	C
ATOM	6431	CG	PHE	B	402	4.505	45.180	48.303	1.00	14.89	C
ATOM	6432	CD1	PHE	B	402	4.396	45.104	49.681	1.00	14.64	C
ATOM	6433	CD2	PHE	B	402	4.336	46.418	47.677	1.00	14.61	C
ATOM	6434	CE1	PHE	B	402	4.115	46.258	50.462	1.00	14.25	C
ATOM	6435	CE2	PHE	B	402	4.047	47.577	48.446	1.00	11.70	C
ATOM	6436	CZ	PHE	B	402	3.935	47.486	49.845	1.00	11.94	C
ATOM	6437	N	ASP	B	403	3.644	41.132	45.927	1.00	17.42	N
ATOM	6438	CA	ASP	B	403	3.635	40.320	44.708	1.00	17.38	C
ATOM	6439	C	ASP	B	403	2.238	40.420	44.122	1.00	17.28	C
ATOM	6440	O	ASP	B	403	2.056	40.487	42.907	1.00	15.15	O
ATOM	6441	CB	ASP	B	403	3.954	38.837	44.995	1.00	16.71	C
ATOM	6442	CG	ASP	B	403	5.427	38.539	44.956	1.00	19.27	C
ATOM	6443	OD1	ASP	B	403	6.211	39.462	44.637	1.00	19.44	O
ATOM	6444	OD2	ASP	B	403	5.817	37.378	45.237	1.00	19.87	O
ATOM	6445	N	ARG	B	404	1.235	40.425	44.993	1.00	16.97	N
ATOM	6446	CA	ARG	B	404	-0.149	40.511	44.535	1.00	18.57	C
ATOM	6447	C	ARG	B	404	-0.361	41.862	43.859	1.00	18.11	C
ATOM	6448	O	ARG	B	404	-1.035	41.976	42.831	1.00	18.07	O
ATOM	6449	CB	ARG	B	404	-1.119	40.334	45.712	1.00	21.34	C
ATOM	6450	CG	ARG	B	404	-2.555	40.206	45.284	1.00	26.35	C
ATOM	6451	CD	ARG	B	404	-2.801	38.916	44.488	1.00	32.23	C
ATOM	6452	NE	ARG	B	404	-4.244	38.655	44.320	1.00	37.63	N
ATOM	6453	CZ	ARG	B	404	-5.007	37.997	45.200	1.00	38.89	C
ATOM	6454	NH1	ARG	B	404	-4.487	37.509	46.315	1.00	39.76	N
ATOM	6455	NH2	ARG	B	404	-6.297	37.837	44.971	1.00	40.57	N
ATOM	6456	N	ILE	B	405	0.204	42.913	44.425	1.00	15.44	N
ATOM	6457	CA	ILE	B	405	0.038	44.206	43.754	1.00	15.14	C
ATOM	6458	C	ILE	B	405	0.716	44.148	42.396	1.00	14.16	C
ATOM	6459	O	ILE	B	405	0.128	44.542	41.374	1.00	16.70	O
ATOM	6460	CB	ILE	B	405	0.672	45.398	44.586	1.00	14.80	C
ATOM	6461	CG1	ILE	B	405	-0.160	45.670	45.835	1.00	13.45	C
ATOM	6462	CG2	ILE	B	405	0.717	46.682	43.722	1.00	14.04	C
ATOM	6463	CD1	ILE	B	405	0.594	46.460	46.939	1.00	16.55	C
ATOM	6464	N	ALA	B	406	1.947	43.641	42.361	1.00	13.34	N
ATOM	6465	CA	ALA	B	406	2.668	43.563	41.106	1.00	13.94	C
ATOM	6466	C	ALA	B	406	1.904	42.810	40.009	1.00	15.33	C
ATOM	6467	O	ALA	B	406	1.843	43.241	38.866	1.00	15.51	O
ATOM	6468	CB	ALA	B	406	3.991	42.901	41.323	1.00	14.15	C
ATOM	6469	N	THR	B	407	1.344	41.665	40.356	1.00	16.79	N
ATOM	6470	CA	THR	B	407	0.627	40.887	39.333	1.00	16.71	C
ATOM	6471	C	THR	B	407	-0.742	41.424	39.001	1.00	17.78	C
ATOM	6472	O	THR	B	407	-1.313	41.060	37.971	1.00	19.92	O
ATOM	6473	CB	THR	B	407	0.526	39.394	39.733	1.00	16.85	C



ATOM	6474	OG1	THR	B	407	-0.131	39.264	40.987	1.00	19.75	O
ATOM	6475	CG2	THR	B	407	1.905	38.802	39.865	1.00	18.23	C
ATOM	6476	N	THR	B	408	-1.262	42.317	39.830	1.00	17.72	N
ATOM	6477	CA	THR	B	408	-2.540	42.910	39.539	1.00	18.02	C
ATOM	6478	C	THR	B	408	-2.251	43.958	38.469	1.00	19.46	C
ATOM	6479	O	THR	B	408	-3.023	44.150	37.519	1.00	17.70	O
ATOM	6480	CB	THR	B	408	-3.156	43.592	40.782	1.00	19.32	C
ATOM	6481	OG1	THR	B	408	-3.513	42.596	41.748	1.00	21.12	O
ATOM	6482	CG2	THR	B	408	-4.366	44.382	40.403	1.00	18.48	C
ATOM	6483	N	VAL	B	409	-1.119	44.635	38.619	1.00	18.58	N
ATOM	6484	CA	VAL	B	409	-0.753	45.638	37.639	1.00	19.58	C
ATOM	6485	C	VAL	B	409	-0.308	44.984	36.357	1.00	18.13	C
ATOM	6486	O	VAL	B	409	-0.733	45.385	35.298	1.00	19.51	O
ATOM	6487	CB	VAL	B	409	0.385	46.552	38.148	1.00	19.16	C
ATOM	6488	CG1	VAL	B	409	0.843	47.443	37.032	1.00	20.17	C
ATOM	6489	CG2	VAL	B	409	-0.126	47.377	39.356	1.00	17.94	C
ATOM	6490	N	ASP	B	410	0.532	43.958	36.463	1.00	20.42	N
ATOM	6491	CA	ASP	B	410	1.056	43.240	35.302	1.00	20.09	C
ATOM	6492	C	ASP	B	410	1.136	41.730	35.593	1.00	21.60	C
ATOM	6493	O	ASP	B	410	2.144	41.236	36.092	1.00	18.41	O
ATOM	6494	CB	ASP	B	410	2.463	43.737	34.965	1.00	20.65	C
ATOM	6495	CG	ASP	B	410	3.068	42.997	33.782	1.00	23.26	C
ATOM	6496	OD1	ASP	B	410	2.325	42.232	33.096	1.00	21.85	O
ATOM	6497	OD2	ASP	B	410	4.279	43.183	33.527	1.00	22.37	O
ATOM	6498	N	PRO	B	411	0.077	40.980	35.264	1.00	23.47	N
ATOM	6499	CA	PRO	B	411	0.124	39.533	35.530	1.00	24.62	C
ATOM	6500	C	PRO	B	411	1.365	38.790	34.988	1.00	24.69	C
ATOM	6501	O	PRO	B	411	1.750	37.735	35.518	1.00	24.58	O
ATOM	6502	CB	PRO	B	411	-1.197	39.019	34.919	1.00	25.66	C
ATOM	6503	CG	PRO	B	411	-1.591	40.058	33.943	1.00	29.05	C
ATOM	6504	CD	PRO	B	411	-1.173	41.362	34.589	1.00	24.64	C
ATOM	6505	N	ASN	B	412	1.988	39.337	33.949	1.00	22.22	N
ATOM	6506	CA	ASN	B	412	3.154	38.694	33.341	1.00	25.67	C
ATOM	6507	C	ASN	B	412	4.475	39.168	33.871	1.00	24.55	C
ATOM	6508	O	ASN	B	412	5.523	38.871	33.273	1.00	24.84	O
ATOM	6509	CB	ASN	B	412	3.173	38.920	31.829	1.00	27.69	C
ATOM	6510	CG	ASN	B	412	1.927	38.419	31.165	1.00	30.77	C
ATOM	6511	OD1	ASN	B	412	1.485	37.289	31.411	1.00	31.71	O
ATOM	6512	ND2	ASN	B	412	1.337	39.255	30.314	1.00	33.59	N
ATOM	6513	N	SER	B	413	4.460	39.914	34.964	1.00	22.19	N
ATOM	6514	CA	SER	B	413	5.727	40.413	35.485	1.00	20.91	C
ATOM	6515	C	SER	B	413	6.687	39.269	35.732	1.00	21.44	C
ATOM	6516	O	SER	B	413	6.291	38.248	36.334	1.00	20.43	O
ATOM	6517	CB	SER	B	413	5.542	41.166	36.805	1.00	21.01	C
ATOM	6518	OG	SER	B	413	6.828	41.319	37.420	1.00	23.02	O
ATOM	6519	N	SER	B	414	7.938	39.445	35.289	1.00	21.28	N
ATOM	6520	CA	SER	B	414	8.996	38.455	35.491	1.00	23.04	C
ATOM	6521	C	SER	B	414	9.864	38.840	36.690	1.00	22.50	C
ATOM	6522	O	SER	B	414	10.902	38.244	36.935	1.00	21.51	O
ATOM	6523	CB	SER	B	414	9.880	38.327	34.239	1.00	26.05	C
ATOM	6524	OG	SER	B	414	10.588	39.511	33.984	1.00	27.84	O
ATOM	6525	N	THR	B	415	9.420	39.818	37.468	1.00	20.78	N
ATOM	6526	CA	THR	B	415	10.213	40.264	38.603	1.00	20.96	C
ATOM	6527	C	THR	B	415	9.489	40.212	39.930	1.00	21.53	C
ATOM	6528	O	THR	B	415	9.708	41.087	40.775	1.00	20.75	O
ATOM	6529	CB	THR	B	415	10.719	41.706	38.397	1.00	22.85	C
ATOM	6530	OG1	THR	B	415	9.595	42.591	38.237	1.00	24.17	O
ATOM	6531	CG2	THR	B	415	11.592	41.789	37.175	1.00	22.73	C
ATOM	6532	N	THR	B	416	8.624	39.206	40.125	1.00	19.23	N
ATOM	6533	CA	THR	B	416	7.941	39.086	41.409	1.00	18.56	C
ATOM	6534	C	THR	B	416	8.925	38.459	42.358	1.00	18.90	C
ATOM	6535	O	THR	B	416	9.963	37.954	41.907	1.00	18.66	O
ATOM	6536	CB	THR	B	416	6.622	38.309	41.318	1.00	20.55	C
ATOM	6537	OG1	THR	B	416	6.830	36.992	40.794	1.00	22.17	O
ATOM	6538	CG2	THR	B	416	5.689	39.070	40.454	1.00	18.70	C
ATOM	6539	N	ALA	B	417	8.623	38.506	43.657	1.00	17.55	N
ATOM	6540	CA	ALA	B	417	9.558	38.077	44.693	1.00	19.19	C
ATOM	6541	C	ALA	B	417	9.547	36.691	45.324	1.00	19.88	C
ATOM	6542	O	ALA	B	417	10.609	36.100	45.551	1.00	22.54	O
ATOM	6543	CB	ALA	B	417	9.515	39.108	45.868	1.00	17.39	C
ATOM	6544	N	LEU	B	418	8.369	36.198	45.674	1.00	20.64	N
ATOM	6545	CA	LEU	B	418	8.367	34.924	46.376	1.00	21.79	C
ATOM	6546	C	LEU	B	418	8.718	33.712	45.529	1.00	22.68	C
ATOM	6547	O	LEU	B	418	9.335	32.753	46.035	1.00	23.54	O
ATOM	6548	CB	LEU	B	418	7.036	34.719	47.106	1.00	21.68	C
ATOM	6549	CG	LEU	B	418	6.755	35.553	48.371	1.00	20.48	C
ATOM	6550	CD1	LEU	B	418	5.420	35.049	48.970	1.00	21.15	C
ATOM	6551	CD2	LEU	B	418	7.892	35.415	49.429	1.00	20.77	C
ATOM	6552	N	THR	B	419	8.384	33.751	44.246	1.00	23.14	N
ATOM	6553	CA	THR	B	419	8.693	32.607	43.383	1.00	24.50	C



ATOM	6554	C	THR	B	419	10.204	32.479	43.186	1.00	24.94	C
ATOM	6555	O	THR	B	419	10.871	33.403	42.734	1.00	24.11	O
ATOM	6556	CB	THR	B	419	7.952	32.737	42.036	1.00	25.26	C
ATOM	6557	OG1	THR	B	419	6.543	32.844	42.292	1.00	22.41	O
ATOM	6558	CG2	THR	B	419	8.232	31.553	41.127	1.00	25.00	C
ATOM	6559	N	GLY	B	420	10.746	31.322	43.553	1.00	25.90	N
ATOM	6560	CA	GLY	B	420	12.180	31.125	43.413	1.00	25.39	C
ATOM	6561	C	GLY	B	420	12.959	31.606	44.620	1.00	25.87	C
ATOM	6562	O	GLY	B	420	14.190	31.596	44.611	1.00	27.02	O
ATOM	6563	N	SER	B	421	12.268	32.016	45.673	1.00	25.40	N
ATOM	6564	CA	SER	B	421	12.981	32.511	46.863	1.00	24.58	C
ATOM	6565	C	SER	B	421	13.411	31.368	47.770	1.00	25.38	C
ATOM	6566	O	SER	B	421	12.820	30.296	47.731	1.00	22.78	O
ATOM	6567	CB	SER	B	421	12.086	33.436	47.657	1.00	24.90	C
ATOM	6568	OG	SER	B	421	10.926	32.751	48.075	1.00	22.94	O
ATOM	6569	N	THR	B	422	14.432	31.603	48.586	1.00	26.07	N
ATOM	6570	CA	THR	B	422	14.866	30.562	49.503	1.00	27.75	C
ATOM	6571	C	THR	B	422	13.769	30.324	50.523	1.00	28.84	C
ATOM	6572	O	THR	B	422	13.724	29.242	51.157	1.00	28.77	O
ATOM	6573	CB	THR	B	422	16.123	30.934	50.251	1.00	27.02	C
ATOM	6574	OG1	THR	B	422	15.892	32.123	51.027	1.00	30.71	O
ATOM	6575	CG2	THR	B	422	17.229	31.146	49.306	1.00	28.22	C
ATOM	6576	N	GLU	B	423	12.881	31.310	50.709	1.00	26.94	N
ATOM	6577	CA	GLU	B	423	11.801	31.106	51.669	1.00	26.31	C
ATOM	6578	C	GLU	B	423	10.882	30.023	51.167	1.00	28.27	C
ATOM	6579	O	GLU	B	423	10.456	29.140	51.932	1.00	27.12	O
ATOM	6580	CB	GLU	B	423	10.967	32.374	51.929	1.00	23.49	C
ATOM	6581	CG	GLU	B	423	9.845	32.148	52.968	1.00	23.10	C
ATOM	6582	CD	GLU	B	423	9.330	33.466	53.574	1.00	23.64	C
ATOM	6583	OE1	GLU	B	423	10.059	34.058	54.410	1.00	21.51	O
ATOM	6584	OE2	GLU	B	423	8.218	33.907	53.192	1.00	21.09	O
ATOM	6585	N	GLU	B	424	10.554	30.098	49.881	1.00	28.89	N
ATOM	6586	CA	GLU	B	424	9.676	29.112	49.286	1.00	31.61	C
ATOM	6587	C	GLU	B	424	10.386	27.758	49.206	1.00	31.61	C
ATOM	6588	O	GLU	B	424	9.756	26.718	49.335	1.00	31.23	O
ATOM	6589	CB	GLU	B	424	9.228	29.593	47.895	1.00	33.24	C
ATOM	6590	CG	GLU	B	424	8.722	28.483	46.964	1.00	37.14	C
ATOM	6591	CD	GLU	B	424	8.427	28.966	45.547	1.00	37.99	C
ATOM	6592	OE1	GLU	B	424	7.324	29.502	45.306	1.00	40.33	O
ATOM	6593	OE2	GLU	B	424	9.302	28.817	44.676	1.00	36.90	O
ATOM	6594	N	GLY	B	425	11.709	27.780	49.039	1.00	31.51	N
ATOM	6595	CA	GLY	B	425	12.451	26.546	48.903	1.00	31.74	C
ATOM	6596	C	GLY	B	425	13.075	25.905	50.127	1.00	32.48	C
ATOM	6597	O	GLY	B	425	13.495	24.753	50.046	1.00	31.31	O
ATOM	6598	N	GLN	B	426	13.116	26.609	51.261	1.00	31.38	N
ATOM	6599	CA	GLN	B	426	13.743	26.066	52.468	1.00	31.33	C
ATOM	6600	C	GLN	B	426	12.908	26.098	53.766	1.00	31.74	C
ATOM	6601	O	GLN	B	426	13.289	25.523	54.793	1.00	31.54	O
ATOM	6602	CB	GLN	B	426	15.067	26.793	52.705	1.00	29.45	C
ATOM	6603	CG	GLN	B	426	15.970	26.823	51.505	1.00	29.51	C
ATOM	6604	CD	GLN	B	426	17.320	27.412	51.847	1.00	30.12	C
ATOM	6605	OE1	GLN	B	426	17.657	27.521	53.027	1.00	29.85	O
ATOM	6606	NE2	GLN	B	426	18.114	27.770	50.827	1.00	29.76	N
ATOM	6607	N	PHE	B	427	11.765	26.760	53.727	1.00	30.76	N
ATOM	6608	CA	PHE	B	427	10.927	26.838	54.897	1.00	31.29	C
ATOM	6609	C	PHE	B	427	9.664	26.078	54.576	1.00	33.62	C
ATOM	6610	O	PHE	B	427	9.246	25.272	55.425	1.00	35.19	O
ATOM	6611	CB	PHE	B	427	10.622	28.320	55.266	1.00	28.52	C
ATOM	6612	CG	PHE	B	427	11.823	29.063	55.754	1.00	24.39	C
ATOM	6613	CD1	PHE	B	427	12.948	29.170	54.950	1.00	21.97	C
ATOM	6614	CD2	PHE	B	427	11.880	29.556	57.050	1.00	21.96	C
ATOM	6615	CE1	PHE	B	427	14.124	29.745	55.422	1.00	22.56	C
ATOM	6616	CE2	PHE	B	427	13.064	30.144	57.543	1.00	21.59	C
ATOM	6617	CZ	PHE	B	427	14.187	30.232	56.722	1.00	21.73	C
TER	6618		PHE	B	427						
ATOM	6619	N	ALA	C	1	-13.878	44.048	67.077	1.00	50.62	N
ATOM	6620	CA	ALA	C	1	-14.387	44.288	65.693	1.00	50.86	C
ATOM	6621	C	ALA	C	1	-15.416	45.420	65.677	1.00	50.47	C
ATOM	6622	O	ALA	C	1	-16.088	45.654	66.683	1.00	51.29	O
ATOM	6623	CB	ALA	C	1	-15.008	43.018	65.149	1.00	50.64	C
ATOM	6624	N	SER	C	2	-15.541	46.094	64.528	1.00	48.80	N
ATOM	6625	CA	SER	C	2	-16.464	47.227	64.334	1.00	47.44	C
ATOM	6626	C	SER	C	2	-16.917	47.285	62.863	1.00	45.74	C
ATOM	6627	O	SER	C	2	-16.390	46.555	62.024	1.00	46.76	O
ATOM	6628	CB	SER	C	2	-15.737	48.539	64.697	1.00	47.19	C
ATOM	6629	OG	SER	C	2	-16.546	49.678	64.479	1.00	46.70	O
ATOM	6630	N	VAL	C	3	-17.889	48.132	62.535	1.00	43.15	N
ATOM	6631	CA	VAL	C	3	-18.313	48.226	61.137	1.00	40.66	C
ATOM	6632	C	VAL	C	3	-17.528	49.334	60.445	1.00	39.06	C
ATOM	6633	O	VAL	C	3	-17.465	49.380	59.215	1.00	38.13	O



ATOM	6634	CB	VAL	C	3	-19.831	48.592	60.964	1.00	40.72	C
ATOM	6635	CG1	VAL	C	3	-20.694	47.658	61.759	1.00	39.97	C
ATOM	6636	CG2	VAL	C	3	-20.087	50.045	61.355	1.00	40.54	C
ATOM	6637	N	VAL	C	4	-16.930	50.220	61.248	1.00	36.21	N
ATOM	6638	CA	VAL	C	4	-16.198	51.375	60.718	1.00	33.84	C
ATOM	6639	C	VAL	C	4	-15.120	50.979	59.720	1.00	31.65	C
ATOM	6640	O	VAL	C	4	-14.263	50.156	60.017	1.00	30.84	O
ATOM	6641	CB	VAL	C	4	-15.549	52.197	61.847	1.00	33.10	C
ATOM	6642	CG1	VAL	C	4	-15.045	53.526	61.293	1.00	31.66	C
ATOM	6643	CG2	VAL	C	4	-16.548	52.430	62.972	1.00	32.05	C
ATOM	6644	N	GLY	C	5	-15.172	51.578	58.539	1.00	31.12	N
ATOM	6645	CA	GLY	C	5	-14.191	51.262	57.511	1.00	30.51	C
ATOM	6646	C	GLY	C	5	-14.321	49.928	56.782	1.00	30.73	C
ATOM	6647	O	GLY	C	5	-13.374	49.500	56.121	1.00	28.91	O
ATOM	6648	N	THR	C	6	-15.465	49.254	56.867	1.00	30.29	N
ATOM	6649	CA	THR	C	6	-15.592	47.970	56.174	1.00	29.80	C
ATOM	6650	C	THR	C	6	-15.520	48.173	54.654	1.00	28.35	C
ATOM	6651	O	THR	C	6	-16.144	49.069	54.107	1.00	27.80	O
ATOM	6652	CB	THR	C	6	-16.911	47.271	56.558	1.00	31.71	C
ATOM	6653	OG1	THR	C	6	-16.915	47.034	57.974	1.00	34.83	O
ATOM	6654	CG2	THR	C	6	-17.031	45.934	55.845	1.00	32.83	C
ATOM	6655	N	PRO	C	7	-14.737	47.345	53.957	1.00	28.28	N
ATOM	6656	CA	PRO	C	7	-14.587	47.444	52.502	1.00	28.25	C
ATOM	6657	C	PRO	C	7	-15.878	47.192	51.731	1.00	29.11	C
ATOM	6658	O	PRO	C	7	-16.739	46.445	52.186	1.00	27.99	O
ATOM	6659	CB	PRO	C	7	-13.572	46.359	52.172	1.00	27.95	C
ATOM	6660	CG	PRO	C	7	-12.888	46.071	53.477	1.00	28.73	C
ATOM	6661	CD	PRO	C	7	-13.975	46.207	54.486	1.00	28.60	C
ATOM	6662	N	LYS	C	8	-15.987	47.805	50.559	1.00	28.49	N
ATOM	6663	CA	LYS	C	8	-17.151	47.605	49.671	1.00	29.99	C
ATOM	6664	C	LYS	C	8	-17.011	46.241	49.046	1.00	29.50	C
ATOM	6665	O	LYS	C	8	-15.931	45.660	49.051	1.00	30.66	O
ATOM	6666	CB	LYS	C	8	-17.158	48.628	48.534	1.00	29.74	C
ATOM	6667	CG	LYS	C	8	-17.637	49.977	48.929	1.00	30.62	C
ATOM	6668	CD	LYS	C	8	-17.373	50.984	47.827	1.00	32.65	C
ATOM	6669	CE	LYS	C	8	-17.206	52.352	48.428	1.00	34.70	C
ATOM	6670	NZ	LYS	C	8	-17.051	53.393	47.396	1.00	35.75	N
ATOM	6671	N	SER	C	9	-18.098	45.711	48.494	1.00	29.85	N
ATOM	6672	CA	SER	C	9	-18.004	44.411	47.846	1.00	28.35	C
ATOM	6673	C	SER	C	9	-17.495	44.634	46.431	1.00	27.07	C
ATOM	6674	O	SER	C	9	-17.681	45.697	45.876	1.00	26.20	O
ATOM	6675	CB	SER	C	9	-19.388	43.759	47.743	1.00	28.93	C
ATOM	6676	OG	SER	C	9	-20.232	44.553	46.918	1.00	30.24	O
ATOM	6677	N	ALA	C	10	-16.887	43.612	45.839	1.00	28.10	N
ATOM	6678	CA	ALA	C	10	-16.418	43.721	44.461	1.00	26.98	C
ATOM	6679	C	ALA	C	10	-17.605	44.150	43.585	1.00	29.39	C
ATOM	6680	O	ALA	C	10	-17.471	44.983	42.709	1.00	26.41	O
ATOM	6681	CB	ALA	C	10	-15.876	42.394	44.001	1.00	27.15	C
ATOM	6682	N	GLU	C	11	-18.786	43.600	43.862	1.00	30.48	N
ATOM	6683	CA	GLU	C	11	-19.979	43.954	43.100	1.00	32.56	C
ATOM	6684	C	GLU	C	11	-20.268	45.447	43.136	1.00	31.30	C
ATOM	6685	O	GLU	C	11	-20.612	46.035	42.122	1.00	30.26	O
ATOM	6686	CB	GLU	C	11	-21.210	43.219	43.650	1.00	35.82	C
ATOM	6687	CG	GLU	C	11	-21.251	41.726	43.390	1.00	40.39	C
ATOM	6688	CD	GLU	C	11	-20.144	40.952	44.091	1.00	43.83	C
ATOM	6689	OE1	GLU	C	11	-19.848	41.228	45.281	1.00	44.80	O
ATOM	6690	OE2	GLU	C	11	-19.579	40.040	43.444	1.00	47.34	O
ATOM	6691	N	GLN	C	12	-20.169	46.048	44.316	1.00	31.29	N
ATOM	6692	CA	GLN	C	12	-20.437	47.497	44.455	1.00	31.83	C
ATOM	6693	C	GLN	C	12	-19.464	48.343	43.648	1.00	30.38	C
ATOM	6694	O	GLN	C	12	-19.816	49.392	43.088	1.00	29.21	O
ATOM	6695	CB	GLN	C	12	-20.283	47.951	45.906	1.00	33.58	C
ATOM	6696	CG	GLN	C	12	-21.222	47.335	46.879	1.00	38.14	C
ATOM	6697	CD	GLN	C	12	-21.056	47.957	48.252	1.00	40.24	C
ATOM	6698	OE1	GLN	C	12	-21.223	49.174	48.419	1.00	40.20	O
ATOM	6699	NE2	GLN	C	12	-20.715	47.129	49.241	1.00	42.01	N
ATOM	6700	N	ILE	C	13	-18.209	47.910	43.663	1.00	29.05	N
ATOM	6701	CA	ILE	C	13	-17.162	48.624	42.946	1.00	28.89	C
ATOM	6702	C	ILE	C	13	-17.409	48.502	41.448	1.00	29.00	C
ATOM	6703	O	ILE	C	13	-17.352	49.490	40.703	1.00	28.95	O
ATOM	6704	CB	ILE	C	13	-15.783	48.032	43.297	1.00	28.44	C
ATOM	6705	CG1	ILE	C	13	-15.478	48.284	44.767	1.00	28.17	C
ATOM	6706	CG2	ILE	C	13	-14.705	48.642	42.409	1.00	27.84	C
ATOM	6707	CD1	ILE	C	13	-14.225	47.597	45.221	1.00	28.83	C
ATOM	6708	N	GLN	C	14	-17.680	47.277	41.008	1.00	29.98	N
ATOM	6709	CA	GLN	C	14	-17.928	47.038	39.590	1.00	32.11	C
ATOM	6710	C	GLN	C	14	-19.051	47.954	39.136	1.00	33.02	C
ATOM	6711	O	GLN	C	14	-18.958	48.621	38.098	1.00	32.61	O
ATOM	6712	CB	GLN	C	14	-18.327	45.590	39.346	1.00	31.05	C
ATOM	6713	CG	GLN	C	14	-18.475	45.297	37.879	1.00	31.89	C



ATOM	6714	CD	GLN	C	14	-17.174	45.515	37.142	1.00	31.82	C
ATOM	6715	OE1	GLN	C	14	-16.136	44.950	37.507	1.00	33.06	O
ATOM	6716	NE2	GLN	C	14	-17.213	46.340	36.109	1.00	34.40	N
ATOM	6717	N	GLN	C	15	-20.109	47.994	39.943	1.00	35.12	N
ATOM	6718	CA	GLN	C	15	-21.248	48.834	39.636	1.00	36.59	C
ATOM	6719	C	GLN	C	15	-20.849	50.282	39.461	1.00	36.30	C
ATOM	6720	O	GLN	C	15	-21.362	50.958	38.585	1.00	35.79	O
ATOM	6721	CB	GLN	C	15	-22.292	48.744	40.731	1.00	39.06	C
ATOM	6722	CG	GLN	C	15	-23.409	49.734	40.519	1.00	43.23	C
ATOM	6723	CD	GLN	C	15	-24.581	49.497	41.442	1.00	46.20	C
ATOM	6724	OE1	GLN	C	15	-25.051	48.358	41.597	1.00	48.05	O
ATOM	6725	NE2	GLN	C	15	-25.080	50.571	42.047	1.00	46.64	N
ATOM	6726	N	GLU	C	16	-19.947	50.771	40.309	1.00	35.88	N
ATOM	6727	CA	GLU	C	16	-19.517	52.160	40.207	1.00	36.55	C
ATOM	6728	C	GLU	C	16	-18.777	52.382	38.899	1.00	35.16	C
ATOM	6729	O	GLU	C	16	-19.005	53.360	38.218	1.00	34.82	O
ATOM	6730	CB	GLU	C	16	-18.612	52.536	41.384	1.00	37.62	C
ATOM	6731	CG	GLU	C	16	-19.333	52.600	42.727	1.00	41.30	C
ATOM	6732	CD	GLU	C	16	-18.423	53.100	43.854	1.00	43.54	C
ATOM	6733	OE1	GLU	C	16	-17.810	54.181	43.684	1.00	44.49	O
ATOM	6734	OE2	GLU	C	16	-18.319	52.422	44.902	1.00	43.16	O
ATOM	6735	N	TRP	C	17	-17.895	51.456	38.546	1.00	34.62	N
ATOM	6736	CA	TRP	C	17	-17.152	51.590	37.308	1.00	34.30	C
ATOM	6737	C	TRP	C	17	-18.096	51.523	36.117	1.00	35.17	C
ATOM	6738	O	TRP	C	17	-17.850	52.148	35.081	1.00	35.02	O
ATOM	6739	CB	TRP	C	17	-16.110	50.478	37.184	1.00	33.32	C
ATOM	6740	CG	TRP	C	17	-15.039	50.510	38.227	1.00	30.88	C
ATOM	6741	CD1	TRP	C	17	-14.789	51.506	39.131	1.00	32.82	C
ATOM	6742	CD2	TRP	C	17	-14.070	49.491	38.469	1.00	29.92	C
ATOM	6743	NE1	TRP	C	17	-13.716	51.161	39.930	1.00	31.16	N
ATOM	6744	CE2	TRP	C	17	-13.256	49.929	39.540	1.00	29.72	C
ATOM	6745	CE3	TRP	C	17	-13.809	48.241	37.883	1.00	29.33	C
ATOM	6746	CZ2	TRP	C	17	-12.199	49.162	40.038	1.00	28.89	C
ATOM	6747	CZ3	TRP	C	17	-12.757	47.475	38.381	1.00	30.21	C
ATOM	6748	CH2	TRP	C	17	-11.963	47.944	39.452	1.00	27.94	C
ATOM	6749	N	ASP	C	18	-19.177	50.763	36.275	1.00	36.69	N
ATOM	6750	CA	ASP	C	18	-20.169	50.606	35.208	1.00	37.77	C
ATOM	6751	C	ASP	C	18	-21.131	51.767	35.011	1.00	37.61	C
ATOM	6752	O	ASP	C	18	-21.596	51.986	33.897	1.00	39.06	O
ATOM	6753	CB	ASP	C	18	-21.036	49.369	35.450	1.00	38.55	C
ATOM	6754	CG	ASP	C	18	-20.298	48.085	35.250	1.00	40.13	C
ATOM	6755	OD1	ASP	C	18	-19.208	48.096	34.625	1.00	41.04	O
ATOM	6756	OD2	ASP	C	18	-20.834	47.051	35.712	1.00	40.60	O
ATOM	6757	N	THR	C	19	-21.450	52.504	36.069	1.00	38.19	N
ATOM	6758	CA	THR	C	19	-22.441	53.568	35.949	1.00	37.47	C
ATOM	6759	C	THR	C	19	-22.018	54.989	36.176	1.00	36.90	C
ATOM	6760	O	THR	C	19	-22.655	55.903	35.669	1.00	36.26	O
ATOM	6761	CB	THR	C	19	-23.580	53.345	36.913	1.00	38.56	C
ATOM	6762	OG1	THR	C	19	-23.068	53.398	38.252	1.00	40.48	O
ATOM	6763	CG2	THR	C	19	-24.239	51.999	36.663	1.00	39.16	C
ATOM	6764	N	ASN	C	20	-20.978	55.191	36.976	1.00	36.15	N
ATOM	6765	CA	ASN	C	20	-20.506	56.542	37.244	1.00	35.02	C
ATOM	6766	C	ASN	C	20	-19.789	57.102	36.005	1.00	34.50	C
ATOM	6767	O	ASN	C	20	-18.830	56.507	35.503	1.00	34.36	O
ATOM	6768	CB	ASN	C	20	-19.573	56.534	38.461	1.00	34.75	C
ATOM	6769	CG	ASN	C	20	-19.201	57.936	38.927	1.00	33.59	C
ATOM	6770	OD1	ASN	C	20	-19.234	58.894	38.159	1.00	33.43	O
ATOM	6771	ND2	ASN	C	20	-18.819	58.051	40.190	1.00	34.45	N
ATOM	6772	N	PRO	C	21	-20.261	58.252	35.484	1.00	33.86	N
ATOM	6773	CA	PRO	C	21	-19.690	58.909	34.301	1.00	33.30	C
ATOM	6774	C	PRO	C	21	-18.214	59.217	34.486	1.00	32.37	C
ATOM	6775	O	PRO	C	21	-17.451	59.390	33.524	1.00	29.62	O
ATOM	6776	CB	PRO	C	21	-20.539	60.176	34.168	1.00	33.44	C
ATOM	6777	CG	PRO	C	21	-21.863	59.726	34.661	1.00	35.00	C
ATOM	6778	CD	PRO	C	21	-21.501	58.935	35.908	1.00	34.79	C
ATOM	6779	N	ARG	C	22	-17.830	59.292	35.755	1.00	31.44	N
ATOM	6780	CA	ARG	C	22	-16.454	59.556	36.113	1.00	30.21	C
ATOM	6781	C	ARG	C	22	-15.539	58.563	35.394	1.00	30.20	C
ATOM	6782	O	ARG	C	22	-14.483	58.921	34.897	1.00	31.06	O
ATOM	6783	CB	ARG	C	22	-16.283	59.406	37.630	1.00	28.34	C
ATOM	6784	CG	ARG	C	22	-14.832	59.551	38.086	1.00	26.26	C
ATOM	6785	CD	ARG	C	22	-14.234	60.865	37.626	1.00	23.88	C
ATOM	6786	NE	ARG	C	22	-12.847	60.974	38.082	1.00	21.08	N
ATOM	6787	CZ	ARG	C	22	-11.802	60.515	37.403	1.00	21.52	C
ATOM	6788	NH1	ARG	C	22	-11.980	59.906	36.228	1.00	13.91	N
ATOM	6789	NH2	ARG	C	22	-10.561	60.688	37.891	1.00	21.01	N
ATOM	6790	N	TRP	C	23	-15.978	57.319	35.329	1.00	30.31	N
ATOM	6791	CA	TRP	C	23	-15.213	56.234	34.741	1.00	30.70	C
ATOM	6792	C	TRP	C	23	-15.550	55.926	33.304	1.00	32.06	C
ATOM	6793	O	TRP	C	23	-15.196	54.852	32.812	1.00	31.21	O



ATOM	6794	CB	TRP	C	23	-15.430	54.992	35.598	1.00	29.13	C
ATOM	6795	CG	TRP	C	23	-15.241	55.306	37.034	1.00	28.55	C
ATOM	6796	CD1	TRP	C	23	-16.095	55.028	38.058	1.00	27.25	C
ATOM	6797	CD2	TRP	C	23	-14.089	55.923	37.624	1.00	27.92	C
ATOM	6798	NE1	TRP	C	23	-15.543	55.426	39.252	1.00	27.55	N
ATOM	6799	CE2	TRP	C	23	-14.313	55.980	39.014	1.00	28.51	C
ATOM	6800	CE3	TRP	C	23	-12.883	56.429	37.109	1.00	28.00	C
ATOM	6801	CZ2	TRP	C	23	-13.372	56.523	39.905	1.00	28.08	C
ATOM	6802	CZ3	TRP	C	23	-11.962	56.960	37.984	1.00	27.13	C
ATOM	6803	CH2	TRP	C	23	-12.208	57.003	39.363	1.00	27.01	C
ATOM	6804	N	LYS	C	24	-16.209	56.872	32.635	1.00	33.85	N
ATOM	6805	CA	LYS	C	24	-16.645	56.708	31.246	1.00	36.26	C
ATOM	6806	C	LYS	C	24	-15.564	56.243	30.288	1.00	36.99	C
ATOM	6807	O	LYS	C	24	-15.732	55.240	29.601	1.00	37.34	O
ATOM	6808	CB	LYS	C	24	-17.238	58.020	30.705	1.00	38.37	C
ATOM	6809	CG	LYS	C	24	-17.952	57.863	29.367	1.00	41.25	C
ATOM	6810	CD	LYS	C	24	-18.392	59.209	28.765	1.00	44.10	C
ATOM	6811	CE	LYS	C	24	-17.219	59.907	28.072	1.00	45.26	C
ATOM	6812	NZ	LYS	C	24	-17.516	61.294	27.620	1.00	45.84	N
ATOM	6813	N	ASP	C	25	-14.442	56.952	30.237	1.00	36.77	N
ATOM	6814	CA	ASP	C	25	-13.406	56.564	29.279	1.00	37.49	C
ATOM	6815	C	ASP	C	25	-12.171	55.925	29.905	1.00	35.38	C
ATOM	6816	O	ASP	C	25	-11.094	55.906	29.306	1.00	33.89	O
ATOM	6817	CB	ASP	C	25	-13.006	57.792	28.450	1.00	39.71	C
ATOM	6818	CG	ASP	C	25	-14.217	58.514	27.863	1.00	41.97	C
ATOM	6819	OD1	ASP	C	25	-15.070	57.804	27.295	1.00	43.74	O
ATOM	6820	OD2	ASP	C	25	-14.313	59.765	27.957	1.00	41.58	O
ATOM	6821	N	VAL	C	26	-12.361	55.370	31.097	1.00	32.64	N
ATOM	6822	CA	VAL	C	26	-11.287	54.737	31.849	1.00	29.52	C
ATOM	6823	C	VAL	C	26	-11.151	53.221	31.729	1.00	27.66	C
ATOM	6824	O	VAL	C	26	-12.050	52.467	32.115	1.00	28.72	O
ATOM	6825	CB	VAL	C	26	-11.417	55.118	33.333	1.00	28.15	C
ATOM	6826	CG1	VAL	C	26	-10.352	54.424	34.169	1.00	27.31	C
ATOM	6827	CG2	VAL	C	26	-11.296	56.620	33.466	1.00	26.70	C
ATOM	6828	N	THR	C	27	-10.016	52.770	31.201	1.00	25.36	N
ATOM	6829	CA	THR	C	27	-9.755	51.344	31.089	1.00	25.93	C
ATOM	6830	C	THR	C	27	-9.000	50.844	32.329	1.00	25.90	C
ATOM	6831	O	THR	C	27	-8.024	51.465	32.773	1.00	23.29	O
ATOM	6832	CB	THR	C	27	-8.869	51.031	29.864	1.00	26.70	C
ATOM	6833	OG1	THR	C	27	-9.583	51.360	28.663	1.00	29.89	O
ATOM	6834	CG2	THR	C	27	-8.449	49.560	29.856	1.00	27.33	C
ATOM	6835	N	ARG	C	28	-9.462	49.744	32.908	1.00	24.79	N
ATOM	6836	CA	ARG	C	28	-8.775	49.149	34.040	1.00	24.33	C
ATOM	6837	C	ARG	C	28	-8.526	47.699	33.632	1.00	26.32	C
ATOM	6838	O	ARG	C	28	-9.470	46.898	33.445	1.00	23.80	O
ATOM	6839	CB	ARG	C	28	-9.621	49.202	35.304	1.00	24.06	C
ATOM	6840	CG	ARG	C	28	-9.874	50.606	35.899	1.00	24.34	C
ATOM	6841	CD	ARG	C	28	-10.780	50.468	37.123	1.00	22.59	C
ATOM	6842	NE	ARG	C	28	-10.849	51.636	38.006	1.00	23.38	N
ATOM	6843	CZ	ARG	C	28	-11.649	52.704	37.847	1.00	26.45	C
ATOM	6844	NH1	ARG	C	28	-12.489	52.810	36.815	1.00	22.70	N
ATOM	6845	NH2	ARG	C	28	-11.640	53.681	38.757	1.00	25.85	N
ATOM	6846	N	THR	C	29	-7.256	47.352	33.464	1.00	24.73	N
ATOM	6847	CA	THR	C	29	-6.927	46.003	33.077	1.00	24.49	C
ATOM	6848	C	THR	C	29	-7.024	44.967	34.205	1.00	24.59	C
ATOM	6849	O	THR	C	29	-6.818	43.783	33.953	1.00	24.93	O
ATOM	6850	CB	THR	C	29	-5.540	45.958	32.409	1.00	23.90	C
ATOM	6851	OG1	THR	C	29	-4.553	46.437	33.335	1.00	21.58	O
ATOM	6852	CG2	THR	C	29	-5.553	46.853	31.146	1.00	22.86	C
ATOM	6853	N	TYR	C	30	-7.332	45.399	35.431	1.00	23.28	N
ATOM	6854	CA	TYR	C	30	-7.513	44.473	36.549	1.00	24.12	C
ATOM	6855	C	TYR	C	30	-8.991	44.437	36.947	1.00	24.24	C
ATOM	6856	O	TYR	C	30	-9.778	45.256	36.442	1.00	25.06	O
ATOM	6857	CB	TYR	C	30	-6.646	44.879	37.744	1.00	21.47	C
ATOM	6858	CG	TYR	C	30	-6.750	46.337	38.059	1.00	20.08	C
ATOM	6859	CD1	TYR	C	30	-7.819	46.829	38.783	1.00	19.72	C
ATOM	6860	CD2	TYR	C	30	-5.785	47.219	37.612	1.00	18.19	C
ATOM	6861	CE1	TYR	C	30	-7.934	48.157	39.053	1.00	20.76	C
ATOM	6862	CE2	TYR	C	30	-5.876	48.571	37.886	1.00	20.75	C
ATOM	6863	CZ	TYR	C	30	-6.953	49.036	38.602	1.00	19.50	C
ATOM	6864	OH	TYR	C	30	-7.069	50.363	38.822	1.00	17.79	O
ATOM	6865	N	SER	C	31	-9.367	43.515	37.843	1.00	24.30	N
ATOM	6866	CA	SER	C	31	-10.784	43.368	38.275	1.00	26.01	C
ATOM	6867	C	SER	C	31	-11.131	44.040	39.596	1.00	26.63	C
ATOM	6868	O	SER	C	31	-10.248	44.444	40.351	1.00	25.50	O
ATOM	6869	CB	SER	C	31	-11.140	41.895	38.429	1.00	26.47	C
ATOM	6870	OG	SER	C	31	-10.247	41.303	39.357	1.00	27.23	O
ATOM	6871	N	ALA	C	32	-12.426	44.132	39.878	1.00	25.62	N
ATOM	6872	CA	ALA	C	32	-12.891	44.734	41.124	1.00	25.56	C
ATOM	6873	C	ALA	C	32	-12.481	43.792	42.242	1.00	26.22	C



ATOM	6874	O	ALA	C	32	-12.069	44.217	43.308	1.00	24.19	O
ATOM	6875	CB	ALA	C	32	-14.397	44.903	41.081	1.00	25.99	C
ATOM	6876	N	GLU	C	33	-12.608	42.494	41.995	1.00	26.19	N
ATOM	6877	CA	GLU	C	33	-12.219	41.500	42.977	1.00	27.92	C
ATOM	6878	C	GLU	C	33	-10.734	41.707	43.314	1.00	26.88	C
ATOM	6879	O	GLU	C	33	-10.315	41.486	44.456	1.00	25.80	O
ATOM	6880	CB	GLU	C	33	-12.407	40.086	42.417	1.00	29.98	C
ATOM	6881	CG	GLU	C	33	-13.839	39.739	41.913	1.00	37.16	C
ATOM	6882	CD	GLU	C	33	-14.427	40.715	40.839	1.00	39.86	C
ATOM	6883	OE1	GLU	C	33	-13.711	41.184	39.900	1.00	36.63	O
ATOM	6884	OE2	GLU	C	33	-15.652	40.989	40.942	1.00	43.45	O
ATOM	6885	N	ASP	C	34	-9.948	42.103	42.315	1.00	24.55	N
ATOM	6886	CA	ASP	C	34	-8.526	42.353	42.545	1.00	24.09	C
ATOM	6887	C	ASP	C	34	-8.332	43.536	43.491	1.00	24.12	C
ATOM	6888	O	ASP	C	34	-7.419	43.522	44.314	1.00	24.32	O
ATOM	6889	CB	ASP	C	34	-7.793	42.666	41.242	1.00	25.16	C
ATOM	6890	CG	ASP	C	34	-7.616	41.458	40.349	1.00	26.54	C
ATOM	6891	OD1	ASP	C	34	-7.531	40.312	40.843	1.00	27.12	O
ATOM	6892	OD2	ASP	C	34	-7.525	41.678	39.129	1.00	28.72	O
ATOM	6893	N	VAL	C	35	-9.178	44.555	43.366	1.00	21.44	N
ATOM	6894	CA	VAL	C	35	-9.087	45.723	44.240	1.00	22.27	C
ATOM	6895	C	VAL	C	35	-9.418	45.324	45.682	1.00	22.84	C
ATOM	6896	O	VAL	C	35	-8.668	45.640	46.626	1.00	19.61	O
ATOM	6897	CB	VAL	C	35	-10.061	46.826	43.795	1.00	20.21	C
ATOM	6898	CG1	VAL	C	35	-10.119	47.955	44.846	1.00	19.37	C
ATOM	6899	CG2	VAL	C	35	-9.624	47.387	42.482	1.00	21.03	C
ATOM	6900	N	VAL	C	36	-10.539	44.610	45.850	1.00	22.12	N
ATOM	6901	CA	VAL	C	36	-10.963	44.173	47.168	1.00	22.71	C
ATOM	6902	C	VAL	C	36	-9.971	43.246	47.858	1.00	22.98	C
ATOM	6903	O	VAL	C	36	-9.828	43.290	49.082	1.00	24.38	O
ATOM	6904	CB	VAL	C	36	-12.333	43.467	47.105	1.00	22.98	C
ATOM	6905	CG1	VAL	C	36	-12.656	42.872	48.441	1.00	26.32	C
ATOM	6906	CG2	VAL	C	36	-13.402	44.459	46.728	1.00	21.54	C
ATOM	6907	N	ALA	C	37	-9.296	42.395	47.101	1.00	20.62	N
ATOM	6908	CA	ALA	C	37	-8.319	41.496	47.697	1.00	21.50	C
ATOM	6909	C	ALA	C	37	-7.186	42.222	48.423	1.00	21.07	C
ATOM	6910	O	ALA	C	37	-6.576	41.655	49.357	1.00	21.09	O
ATOM	6911	CB	ALA	C	37	-7.690	40.610	46.621	1.00	21.85	C
ATOM	6912	N	LEU	C	38	-6.880	43.435	47.951	1.00	20.18	N
ATOM	6913	CA	LEU	C	38	-5.772	44.228	48.500	1.00	20.18	C
ATOM	6914	C	LEU	C	38	-6.160	45.198	49.623	1.00	21.79	C
ATOM	6915	O	LEU	C	38	-5.281	45.824	50.230	1.00	20.27	O
ATOM	6916	CB	LEU	C	38	-5.084	45.006	47.358	1.00	21.34	C
ATOM	6917	CG	LEU	C	38	-4.453	44.199	46.208	1.00	19.99	C
ATOM	6918	CD1	LEU	C	38	-3.939	45.147	45.098	1.00	22.42	C
ATOM	6919	CD2	LEU	C	38	-3.308	43.334	46.743	1.00	23.00	C
ATOM	6920	N	GLN	C	39	-7.459	45.316	49.925	1.00	19.48	N
ATOM	6921	CA	GLN	C	39	-7.909	46.247	50.959	1.00	19.63	C
ATOM	6922	C	GLN	C	39	-7.950	45.762	52.413	1.00	21.42	C
ATOM	6923	O	GLN	C	39	-8.312	46.510	53.312	1.00	23.97	O
ATOM	6924	CB	GLN	C	39	-9.286	46.787	50.584	1.00	19.52	C
ATOM	6925	CG	GLN	C	39	-9.304	47.572	49.310	1.00	20.46	C
ATOM	6926	CD	GLN	C	39	-10.724	48.017	48.910	1.00	22.10	C
ATOM	6927	OE1	GLN	C	39	-11.671	47.236	49.015	1.00	20.94	O
ATOM	6928	NE2	GLN	C	39	-10.862	49.245	48.441	1.00	19.11	N
ATOM	6929	N	GLY	C	40	-7.594	44.520	52.671	1.00	22.65	N
ATOM	6930	CA	GLY	C	40	-7.641	44.070	54.054	1.00	24.39	C
ATOM	6931	C	GLY	C	40	-9.069	44.189	54.555	1.00	26.48	C
ATOM	6932	O	GLY	C	40	-10.022	44.231	53.745	1.00	26.97	O
ATOM	6933	N	SER	C	41	-9.252	44.279	55.868	1.00	25.72	N
ATOM	6934	CA	SER	C	41	-10.620	44.336	56.378	1.00	25.88	C
ATOM	6935	C	SER	C	41	-11.094	45.707	56.795	1.00	24.87	C
ATOM	6936	O	SER	C	41	-12.221	45.885	57.248	1.00	23.46	O
ATOM	6937	CB	SER	C	41	-10.768	43.344	57.514	1.00	26.54	C
ATOM	6938	OG	SER	C	41	-9.748	43.583	58.460	1.00	29.77	O
ATOM	6939	N	VAL	C	42	-10.236	46.695	56.625	1.00	23.82	N
ATOM	6940	CA	VAL	C	42	-10.606	48.061	56.972	1.00	24.14	C
ATOM	6941	C	VAL	C	42	-10.004	48.992	55.918	1.00	23.66	C
ATOM	6942	O	VAL	C	42	-8.866	48.811	55.506	1.00	24.43	O
ATOM	6943	CB	VAL	C	42	-10.099	48.410	58.399	1.00	23.10	C
ATOM	6944	CG1	VAL	C	42	-10.317	49.871	58.725	1.00	23.22	C
ATOM	6945	CG2	VAL	C	42	-10.815	47.552	59.398	1.00	26.67	C
ATOM	6946	N	VAL	C	43	-10.793	49.942	55.442	1.00	22.39	N
ATOM	6947	CA	VAL	C	43	-10.349	50.901	54.433	1.00	22.54	C
ATOM	6948	C	VAL	C	43	-10.379	52.305	55.015	1.00	22.19	C
ATOM	6949	O	VAL	C	43	-11.439	52.822	55.351	1.00	21.01	O
ATOM	6950	CB	VAL	C	43	-11.244	50.887	53.171	1.00	21.28	C
ATOM	6951	CG1	VAL	C	43	-10.854	52.034	52.251	1.00	23.60	C
ATOM	6952	CG2	VAL	C	43	-11.105	49.570	52.429	1.00	24.48	C
ATOM	6953	N	GLU	C	44	-9.214	52.939	55.156	1.00	20.12	N



ATOM	6954	CA	GLU	C	44	-9.214	54.287	55.726	1.00	19.67	C
ATOM	6955	C	GLU	C	44	-9.869	55.275	54.779	1.00	20.16	C
ATOM	6956	O	GLU	C	44	-9.683	55.192	53.574	1.00	20.56	O
ATOM	6957	CB	GLU	C	44	-7.770	54.774	55.994	1.00	18.28	C
ATOM	6958	CG	GLU	C	44	-7.118	54.173	57.205	1.00	19.44	C
ATOM	6959	CD	GLU	C	44	-5.697	54.725	57.403	1.00	19.02	C
ATOM	6960	OE1	GLU	C	44	-4.806	54.341	56.632	1.00	18.65	O
ATOM	6961	OE2	GLU	C	44	-5.495	55.564	58.293	1.00	21.10	O
ATOM	6962	N	GLU	C	45	-10.617	56.231	55.328	1.00	20.66	N
ATOM	6963	CA	GLU	C	45	-11.252	57.256	54.521	1.00	21.30	C
ATOM	6964	C	GLU	C	45	-10.209	58.341	54.315	1.00	22.13	C
ATOM	6965	O	GLU	C	45	-9.446	58.656	55.221	1.00	23.64	O
ATOM	6966	CB	GLU	C	45	-12.475	57.843	55.242	1.00	24.06	C
ATOM	6967	CG	GLU	C	45	-13.115	59.091	54.577	1.00	24.92	C
ATOM	6968	CD	GLU	C	45	-13.751	58.827	53.198	1.00	28.98	C
ATOM	6969	OE1	GLU	C	45	-13.930	57.661	52.805	1.00	33.07	O
ATOM	6970	OE2	GLU	C	45	-14.079	59.800	52.499	1.00	31.21	O
ATOM	6971	N	HIS	C	46	-10.159	58.894	53.119	1.00	20.83	N
ATOM	6972	CA	HIS	C	46	-9.211	59.950	52.797	1.00	20.72	C
ATOM	6973	C	HIS	C	46	-10.050	61.143	52.341	1.00	19.72	C
ATOM	6974	O	HIS	C	46	-10.142	61.454	51.147	1.00	21.41	O
ATOM	6975	CB	HIS	C	46	-8.238	59.468	51.678	1.00	18.82	C
ATOM	6976	CG	HIS	C	46	-7.344	58.322	52.098	1.00	17.14	C
ATOM	6977	ND1	HIS	C	46	-6.446	58.429	53.129	1.00	16.24	N
ATOM	6978	CD2	HIS	C	46	-7.218	57.062	51.623	1.00	17.64	C
ATOM	6979	CE1	HIS	C	46	-5.801	57.280	53.283	1.00	18.33	C
ATOM	6980	NE2	HIS	C	46	-6.257	56.428	52.377	1.00	16.67	N
ATOM	6981	N	THR	C	47	-10.665	61.809	53.309	1.00	19.44	N
ATOM	6982	CA	THR	C	47	-11.531	62.953	53.058	1.00	19.54	C
ATOM	6983	C	THR	C	47	-11.029	64.005	52.068	1.00	20.12	C
ATOM	6984	O	THR	C	47	-11.737	64.343	51.095	1.00	20.78	O
ATOM	6985	CB	THR	C	47	-11.898	63.667	54.400	1.00	20.35	C
ATOM	6986	OG1	THR	C	47	-12.579	62.739	55.258	1.00	20.71	O
ATOM	6987	CG2	THR	C	47	-12.772	64.921	54.143	1.00	20.59	C
ATOM	6988	N	LEU	C	48	-9.842	64.564	52.315	1.00	18.81	N
ATOM	6989	CA	LEU	C	48	-9.305	65.593	51.432	1.00	17.57	C
ATOM	6990	C	LEU	C	48	-9.013	65.121	50.010	1.00	16.18	C
ATOM	6991	O	LEU	C	48	-9.262	65.828	49.052	1.00	17.26	O
ATOM	6992	CB	LEU	C	48	-8.058	66.239	52.056	1.00	17.08	C
ATOM	6993	CG	LEU	C	48	-8.296	66.917	53.418	1.00	18.65	C
ATOM	6994	CD1	LEU	C	48	-7.009	67.717	53.800	1.00	20.03	C
ATOM	6995	CD2	LEU	C	48	-9.543	67.870	53.358	1.00	19.49	C
ATOM	6996	N	ALA	C	49	-8.442	63.930	49.881	1.00	16.21	N
ATOM	6997	CA	ALA	C	49	-8.168	63.349	48.594	1.00	16.27	C
ATOM	6998	C	ALA	C	49	-9.514	63.141	47.857	1.00	18.71	C
ATOM	6999	O	ALA	C	49	-9.634	63.445	46.682	1.00	17.40	O
ATOM	7000	CB	ALA	C	49	-7.456	62.003	48.788	1.00	15.57	C
ATOM	7001	N	ARG	C	50	-10.523	62.639	48.563	1.00	20.23	N
ATOM	7002	CA	ARG	C	50	-11.812	62.393	47.901	1.00	23.17	C
ATOM	7003	C	ARG	C	50	-12.424	63.700	47.444	1.00	23.41	C
ATOM	7004	O	ARG	C	50	-12.789	63.866	46.279	1.00	25.98	O
ATOM	7005	CB	ARG	C	50	-12.794	61.699	48.829	1.00	22.97	C
ATOM	7006	CG	ARG	C	50	-14.114	61.377	48.148	1.00	25.09	C
ATOM	7007	CD	ARG	C	50	-15.036	60.781	49.151	1.00	25.34	C
ATOM	7008	NE	ARG	C	50	-14.441	59.592	49.769	1.00	23.74	N
ATOM	7009	CZ	ARG	C	50	-14.139	58.473	49.116	1.00	24.32	C
ATOM	7010	NH1	ARG	C	50	-14.378	58.361	47.806	1.00	24.34	N
ATOM	7011	NH2	ARG	C	50	-13.577	57.464	49.771	1.00	23.88	N
ATOM	7012	N	ARG	C	51	-12.557	64.623	48.380	1.00	24.63	N
ATOM	7013	CA	ARG	C	51	-13.139	65.923	48.095	1.00	23.32	C
ATOM	7014	C	ARG	C	51	-12.375	66.621	47.008	1.00	23.58	C
ATOM	7015	O	ARG	C	51	-12.964	67.091	46.030	1.00	24.17	O
ATOM	7016	CB	ARG	C	51	-13.130	66.800	49.350	1.00	25.90	C
ATOM	7017	CG	ARG	C	51	-13.935	68.104	49.247	1.00	26.90	C
ATOM	7018	CD	ARG	C	51	-13.896	68.784	50.611	1.00	26.88	C
ATOM	7019	NE	ARG	C	51	-14.965	69.762	50.812	1.00	28.36	N
ATOM	7020	CZ	ARG	C	51	-14.930	71.025	50.399	1.00	27.44	C
ATOM	7021	NH1	ARG	C	51	-13.882	71.505	49.741	1.00	28.74	N
ATOM	7022	NH2	ARG	C	51	-15.955	71.827	50.683	1.00	29.79	N
ATOM	7023	N	GLY	C	52	-11.057	66.707	47.159	1.00	21.02	N
ATOM	7024	CA	GLY	C	52	-10.277	67.394	46.146	1.00	19.11	C
ATOM	7025	C	GLY	C	52	-10.407	66.778	44.762	1.00	18.38	C
ATOM	7026	O	GLY	C	52	-10.529	67.497	43.767	1.00	18.72	O
ATOM	7027	N	ALA	C	53	-10.379	65.445	44.678	1.00	21.24	N
ATOM	7028	CA	ALA	C	53	-10.499	64.779	43.374	1.00	21.10	C
ATOM	7029	C	ALA	C	53	-11.887	65.056	42.758	1.00	20.50	C
ATOM	7030	O	ALA	C	53	-11.999	65.288	41.559	1.00	22.57	O
ATOM	7031	CB	ALA	C	53	-10.289	63.253	43.508	1.00	20.61	C
ATOM	7032	N	GLU	C	54	-12.930	64.984	43.573	1.00	20.86	N
ATOM	7033	CA	GLU	C	54	-14.266	65.235	43.039	1.00	23.50	C



ATOM	7034	C	GLU	C	54	-14.304	66.666	42.566	1.00	23.19	C
ATOM	7035	O	GLU	C	54	-14.698	66.930	41.434	1.00	24.20	O
ATOM	7036	CB	GLU	C	54	-15.344	64.998	44.101	1.00	24.60	C
ATOM	7037	CG	GLU	C	54	-15.517	63.535	44.435	1.00	28.12	C
ATOM	7038	CD	GLU	C	54	-16.674	63.280	45.360	1.00	31.58	C
ATOM	7039	OE1	GLU	C	54	-17.201	64.261	45.926	1.00	33.26	O
ATOM	7040	OE2	GLU	C	54	-17.045	62.099	45.528	1.00	32.61	O
ATOM	7041	N	VAL	C	55	-13.861	67.593	43.410	1.00	23.96	N
ATOM	7042	CA	VAL	C	55	-13.911	69.016	43.036	1.00	24.72	C
ATOM	7043	C	VAL	C	55	-13.167	69.337	41.754	1.00	25.69	C
ATOM	7044	O	VAL	C	55	-13.693	70.049	40.878	1.00	25.05	O
ATOM	7045	CB	VAL	C	55	-13.388	69.935	44.170	1.00	23.51	C
ATOM	7046	CG1	VAL	C	55	-13.345	71.355	43.700	1.00	23.17	C
ATOM	7047	CG2	VAL	C	55	-14.274	69.804	45.413	1.00	22.39	C
ATOM	7048	N	LEU	C	56	-11.951	68.809	41.631	1.00	24.21	N
ATOM	7049	CA	LEU	C	56	-11.127	69.039	40.454	1.00	23.48	C
ATOM	7050	C	LEU	C	56	-11.772	68.496	39.186	1.00	24.03	C
ATOM	7051	O	LEU	C	56	-11.627	69.084	38.115	1.00	23.71	O
ATOM	7052	CB	LEU	C	56	-9.756	68.353	40.600	1.00	23.90	C
ATOM	7053	CG	LEU	C	56	-8.820	68.474	39.379	1.00	23.66	C
ATOM	7054	CD1	LEU	C	56	-8.537	69.933	39.124	1.00	20.80	C
ATOM	7055	CD2	LEU	C	56	-7.509	67.699	39.621	1.00	21.90	C
ATOM	7056	N	TRP	C	57	-12.425	67.339	39.299	1.00	24.27	N
ATOM	7057	CA	TRP	C	57	-13.078	66.733	38.141	1.00	27.71	C
ATOM	7058	C	TRP	C	57	-14.221	67.679	37.694	1.00	29.36	C
ATOM	7059	O	TRP	C	57	-14.331	68.026	36.508	1.00	29.50	O
ATOM	7060	CB	TRP	C	57	-13.626	65.348	38.517	1.00	27.15	C
ATOM	7061	CG	TRP	C	57	-14.156	64.595	37.353	1.00	29.63	C
ATOM	7062	CD1	TRP	C	57	-15.438	64.143	37.184	1.00	31.27	C
ATOM	7063	CD2	TRP	C	57	-13.416	64.144	36.208	1.00	30.45	C
ATOM	7064	NE1	TRP	C	57	-15.537	63.432	36.005	1.00	31.61	N
ATOM	7065	CE2	TRP	C	57	-14.313	63.415	35.390	1.00	31.48	C
ATOM	7066	CE3	TRP	C	57	-12.082	64.280	35.796	1.00	31.63	C
ATOM	7067	CZ2	TRP	C	57	-13.919	62.822	34.187	1.00	31.87	C
ATOM	7068	CZ3	TRP	C	57	-11.691	63.686	34.597	1.00	32.35	C
ATOM	7069	CH2	TRP	C	57	-12.608	62.967	33.809	1.00	31.01	C
ATOM	7070	N	GLU	C	58	-15.046	68.115	38.647	1.00	30.55	N
ATOM	7071	CA	GLU	C	58	-16.146	69.036	38.326	1.00	32.46	C
ATOM	7072	C	GLU	C	58	-15.602	70.291	37.659	1.00	32.18	C
ATOM	7073	O	GLU	C	58	-16.109	70.721	36.620	1.00	32.57	O
ATOM	7074	CB	GLU	C	58	-16.885	69.493	39.580	1.00	35.39	C
ATOM	7075	CG	GLU	C	58	-17.785	68.508	40.291	1.00	40.77	C
ATOM	7076	CD	GLU	C	58	-18.147	69.042	41.689	1.00	45.47	C
ATOM	7077	OE1	GLU	C	58	-18.635	70.203	41.768	1.00	46.59	O
ATOM	7078	OE2	GLU	C	58	-17.922	68.320	42.707	1.00	48.36	O
ATOM	7079	N	GLN	C	59	-14.595	70.906	38.277	1.00	30.16	N
ATOM	7080	CA	GLN	C	59	-14.013	72.130	37.740	1.00	29.48	C
ATOM	7081	C	GLN	C	59	-13.520	71.970	36.320	1.00	29.72	C
ATOM	7082	O	GLN	C	59	-13.692	72.858	35.490	1.00	29.23	O
ATOM	7083	CB	GLN	C	59	-12.851	72.640	38.603	1.00	29.19	C
ATOM	7084	CG	GLN	C	59	-13.217	73.190	39.976	1.00	29.41	C
ATOM	7085	CD	GLN	C	59	-12.007	73.809	40.705	1.00	30.21	C
ATOM	7086	OE1	GLN	C	59	-10.851	73.560	40.335	1.00	32.54	O
ATOM	7087	NE2	GLN	C	59	-12.269	74.604	41.735	1.00	27.37	N
ATOM	7088	N	LEU	C	60	-12.900	70.830	36.038	1.00	29.86	N
ATOM	7089	CA	LEU	C	60	-12.370	70.586	34.712	1.00	29.43	C
ATOM	7090	C	LEU	C	60	-13.486	70.583	33.652	1.00	32.11	C
ATOM	7091	O	LEU	C	60	-13.214	70.861	32.479	1.00	30.43	O
ATOM	7092	CB	LEU	C	60	-11.615	69.258	34.701	1.00	25.97	C
ATOM	7093	CG	LEU	C	60	-10.251	69.351	35.404	1.00	23.65	C
ATOM	7094	CD1	LEU	C	60	-9.756	67.970	35.756	1.00	22.18	C
ATOM	7095	CD2	LEU	C	60	-9.278	70.063	34.531	1.00	20.14	C
ATOM	7096	N	HIS	C	61	-14.722	70.268	34.077	1.00	34.17	N
ATOM	7097	CA	HIS	C	61	-15.885	70.222	33.184	1.00	36.23	C
ATOM	7098	C	HIS	C	61	-16.790	71.451	33.282	1.00	37.48	C
ATOM	7099	O	HIS	C	61	-17.588	71.695	32.385	1.00	37.25	O
ATOM	7100	CB	HIS	C	61	-16.732	68.967	33.462	1.00	37.93	C
ATOM	7101	CG	HIS	C	61	-16.054	67.677	33.088	1.00	40.22	C
ATOM	7102	ND1	HIS	C	61	-16.047	67.181	31.800	1.00	40.96	N
ATOM	7103	CD2	HIS	C	61	-15.314	66.812	33.824	1.00	40.61	C
ATOM	7104	CE1	HIS	C	61	-15.331	66.070	31.761	1.00	41.39	C
ATOM	7105	NE2	HIS	C	61	-14.873	65.826	32.976	1.00	41.46	N
ATOM	7106	N	ASP	C	62	-16.666	72.226	34.358	1.00	38.15	N
ATOM	7107	CA	ASP	C	62	-17.491	73.414	34.564	1.00	38.24	C
ATOM	7108	C	ASP	C	62	-16.839	74.742	34.203	1.00	38.69	C
ATOM	7109	O	ASP	C	62	-17.532	75.699	33.862	1.00	39.07	O
ATOM	7110	CB	ASP	C	62	-17.956	73.499	36.020	1.00	39.13	C
ATOM	7111	CG	ASP	C	62	-18.840	72.324	36.423	1.00	41.75	C
ATOM	7112	OD1	ASP	C	62	-19.217	71.553	35.512	1.00	44.18	O
ATOM	7113	OD2	ASP	C	62	-19.165	72.168	37.633	1.00	40.50	O



ATOM	7114	N	LEU	C	63	-15.518	74.820	34.288	1.00	37.78	N
ATOM	7115	CA	LEU	C	63	-14.812	76.066	33.990	1.00	36.38	C
ATOM	7116	C	LEU	C	63	-14.258	76.024	32.582	1.00	37.35	C
ATOM	7117	O	LEU	C	63	-14.062	74.939	32.019	1.00	36.67	O
ATOM	7118	CB	LEU	C	63	-13.656	76.279	34.984	1.00	36.38	C
ATOM	7119	CG	LEU	C	63	-13.945	76.528	36.476	1.00	35.94	C
ATOM	7120	CD1	LEU	C	63	-12.656	76.597	37.254	1.00	34.78	C
ATOM	7121	CD2	LEU	C	63	-14.700	77.834	36.652	1.00	35.57	C
ATOM	7122	N	GLU	C	64	-13.990	77.197	32.013	1.00	36.65	N
ATOM	7123	CA	GLU	C	64	-13.447	77.255	30.667	1.00	36.56	C
ATOM	7124	C	GLU	C	64	-12.172	76.438	30.697	1.00	34.86	C
ATOM	7125	O	GLU	C	64	-11.852	75.705	29.758	1.00	34.57	O
ATOM	7126	CB	GLU	C	64	-13.138	78.688	30.278	1.00	37.41	C
ATOM	7127	CG	GLU	C	64	-13.244	78.898	28.798	1.00	39.28	C
ATOM	7128	CD	GLU	C	64	-13.172	80.348	28.430	1.00	40.51	C
ATOM	7129	OE1	GLU	C	64	-13.852	81.157	29.097	1.00	39.98	O
ATOM	7130	OE2	GLU	C	64	-12.438	80.676	27.472	1.00	43.09	O
ATOM	7131	N	TRP	C	65	-11.439	76.611	31.789	1.00	33.55	N
ATOM	7132	CA	TRP	C	65	-10.210	75.854	32.070	1.00	31.94	C
ATOM	7133	C	TRP	C	65	-9.767	76.112	33.513	1.00	31.01	C
ATOM	7134	O	TRP	C	65	-10.173	77.101	34.145	1.00	30.58	O
ATOM	7135	CB	TRP	C	65	-9.074	76.148	31.054	1.00	30.60	C
ATOM	7136	CG	TRP	C	65	-8.277	77.392	31.233	1.00	32.42	C
ATOM	7137	CD1	TRP	C	65	-7.073	77.511	31.864	1.00	32.10	C
ATOM	7138	CD2	TRP	C	65	-8.573	78.689	30.693	1.00	32.83	C
ATOM	7139	NE1	TRP	C	65	-6.598	78.798	31.744	1.00	32.00	N
ATOM	7140	CE2	TRP	C	65	-7.502	79.539	31.032	1.00	32.84	C
ATOM	7141	CE3	TRP	C	65	-9.642	79.214	29.956	1.00	33.51	C
ATOM	7142	CZ2	TRP	C	65	-7.464	80.891	30.659	1.00	34.28	C
ATOM	7143	CZ3	TRP	C	65	-9.605	80.569	29.585	1.00	33.03	C
ATOM	7144	CH2	TRP	C	65	-8.524	81.383	29.939	1.00	32.61	C
ATOM	7145	N	VAL	C	66	-8.988	75.177	34.052	1.00	28.64	N
ATOM	7146	CA	VAL	C	66	-8.490	75.279	35.422	1.00	27.67	C
ATOM	7147	C	VAL	C	66	-7.010	75.659	35.351	1.00	26.33	C
ATOM	7148	O	VAL	C	66	-6.263	74.983	34.680	1.00	28.27	O
ATOM	7149	CB	VAL	C	66	-8.607	73.904	36.133	1.00	27.34	C
ATOM	7150	CG1	VAL	C	66	-8.055	73.983	37.553	1.00	26.19	C
ATOM	7151	CG2	VAL	C	66	-10.055	73.444	36.133	1.00	26.48	C
ATOM	7152	N	ASN	C	67	-6.589	76.766	35.964	1.00	25.82	N
ATOM	7153	CA	ASN	C	67	-5.169	77.065	35.960	1.00	24.84	C
ATOM	7154	C	ASN	C	67	-4.596	77.108	37.371	1.00	24.74	C
ATOM	7155	O	ASN	C	67	-5.341	77.110	38.378	1.00	24.62	O
ATOM	7156	CB	ASN	C	67	-4.792	78.332	35.181	1.00	25.91	C
ATOM	7157	CG	ASN	C	67	-5.545	79.553	35.613	1.00	28.48	C
ATOM	7158	OD1	ASN	C	67	-6.389	79.501	36.516	1.00	29.81	O
ATOM	7159	ND2	ASN	C	67	-5.267	80.678	34.939	1.00	28.24	N
ATOM	7160	N	ALA	C	68	-3.272	77.120	37.434	1.00	23.12	N
ATOM	7161	CA	ALA	C	68	-2.590	77.101	38.717	1.00	22.96	C
ATOM	7162	C	ALA	C	68	-1.130	77.547	38.623	1.00	21.33	C
ATOM	7163	O	ALA	C	68	-0.573	77.735	37.547	1.00	21.52	O
ATOM	7164	CB	ALA	C	68	-2.669	75.673	39.324	1.00	23.34	C
ATOM	7165	N	LEU	C	69	-0.539	77.727	39.794	1.00	21.71	N
ATOM	7166	CA	LEU	C	69	0.849	78.150	39.942	1.00	21.34	C
ATOM	7167	C	LEU	C	69	1.523	77.172	40.919	1.00	20.59	C
ATOM	7168	O	LEU	C	69	0.877	76.715	41.856	1.00	21.40	O
ATOM	7169	CB	LEU	C	69	0.918	79.545	40.574	1.00	21.99	C
ATOM	7170	CG	LEU	C	69	0.474	80.723	39.717	1.00	23.01	C
ATOM	7171	CD1	LEU	C	69	0.866	82.001	40.453	1.00	24.17	C
ATOM	7172	CD2	LEU	C	69	1.147	80.660	38.362	1.00	21.12	C
ATOM	7173	N	GLY	C	70	2.812	76.913	40.714	1.00	20.59	N
ATOM	7174	CA	GLY	C	70	3.546	75.991	41.583	1.00	22.19	C
ATOM	7175	C	GLY	C	70	3.687	76.545	42.990	1.00	21.84	C
ATOM	7176	O	GLY	C	70	4.085	77.695	43.147	1.00	23.11	O
ATOM	7177	N	ALA	C	71	3.299	75.768	44.008	1.00	20.61	N
ATOM	7178	CA	ALA	C	71	3.407	76.204	45.398	1.00	19.17	C
ATOM	7179	C	ALA	C	71	4.387	75.274	46.098	1.00	20.56	C
ATOM	7180	O	ALA	C	71	4.239	74.049	45.985	1.00	19.61	O
ATOM	7181	CB	ALA	C	71	2.067	76.085	46.096	1.00	20.52	C
ATOM	7182	N	LEU	C	72	5.365	75.836	46.808	1.00	19.82	N
ATOM	7183	CA	LEU	C	72	6.310	75.013	47.538	1.00	20.74	C
ATOM	7184	C	LEU	C	72	6.216	75.205	49.049	1.00	19.41	C
ATOM	7185	O	LEU	C	72	6.920	74.502	49.789	1.00	21.75	O
ATOM	7186	CB	LEU	C	72	7.726	75.245	47.060	1.00	21.21	C
ATOM	7187	CG	LEU	C	72	8.259	76.635	47.359	1.00	20.57	C
ATOM	7188	CD1	LEU	C	72	9.496	76.523	48.270	1.00	23.01	C
ATOM	7189	CD2	LEU	C	72	8.594	77.301	46.064	1.00	21.03	C
ATOM	7190	N	THR	C	73	5.396	76.169	49.526	1.00	18.89	N
ATOM	7191	CA	THR	C	73	5.141	76.299	50.971	1.00	16.87	C
ATOM	7192	C	THR	C	73	3.628	76.406	51.134	1.00	17.41	C
ATOM	7193	O	THR	C	73	2.919	76.652	50.156	1.00	18.62	O



ATOM	7194	CB	THR	C	73	5.824	77.535	51.654	1.00	17.07	C
ATOM	7195	OG1	THR	C	73	5.044	78.728	51.431	1.00	19.13	O
ATOM	7196	CG2	THR	C	73	7.236	77.705	51.114	1.00	15.99	C
ATOM	7197	N	GLY	C	74	3.141	76.167	52.343	1.00	19.00	N
ATOM	7198	CA	GLY	C	74	1.715	76.230	52.575	1.00	19.55	C
ATOM	7199	C	GLY	C	74	1.219	77.665	52.424	1.00	19.60	C
ATOM	7200	O	GLY	C	74	0.128	77.908	51.905	1.00	18.88	O
ATOM	7201	N	ASN	C	75	2.015	78.613	52.888	1.00	20.08	N
ATOM	7202	CA	ASN	C	75	1.620	80.023	52.792	1.00	19.70	C
ATOM	7203	C	ASN	C	75	1.415	80.420	51.304	1.00	21.35	C
ATOM	7204	O	ASN	C	75	0.489	81.163	50.988	1.00	20.84	O
ATOM	7205	CB	ASN	C	75	2.682	80.909	53.440	1.00	20.24	C
ATOM	7206	CG	ASN	C	75	2.600	80.921	54.960	1.00	19.01	C
ATOM	7207	OD1	ASN	C	75	1.922	80.076	55.608	1.00	22.62	O
ATOM	7208	ND2	ASN	C	75	3.287	81.871	55.547	1.00	17.84	N
ATOM	7209	N	MET	C	76	2.245	79.915	50.388	1.00	21.36	N
ATOM	7210	CA	MET	C	76	2.057	80.241	48.966	1.00	22.69	C
ATOM	7211	C	MET	C	76	0.695	79.764	48.461	1.00	24.31	C
ATOM	7212	O	MET	C	76	-0.011	80.468	47.733	1.00	24.66	O
ATOM	7213	CB	MET	C	76	3.128	79.601	48.085	1.00	22.06	C
ATOM	7214	CG	MET	C	76	4.575	80.043	48.311	1.00	21.92	C
ATOM	7215	SD	MET	C	76	5.645	79.406	46.945	1.00	25.50	S
ATOM	7216	CE	MET	C	76	7.232	80.161	47.316	1.00	22.92	C
ATOM	7217	N	ALA	C	77	0.320	78.553	48.855	1.00	23.43	N
ATOM	7218	CA	ALA	C	77	-0.953	78.004	48.442	1.00	23.59	C
ATOM	7219	C	ALA	C	77	-2.070	78.868	49.001	1.00	24.05	C
ATOM	7220	O	ALA	C	77	-3.058	79.142	48.296	1.00	24.88	O
ATOM	7221	CB	ALA	C	77	-1.104	76.531	48.942	1.00	22.24	C
ATOM	7222	N	VAL	C	78	-1.938	79.280	50.265	1.00	21.20	N
ATOM	7223	CA	VAL	C	78	-2.950	80.146	50.870	1.00	21.54	C
ATOM	7224	C	VAL	C	78	-3.122	81.424	50.030	1.00	21.56	C
ATOM	7225	O	VAL	C	78	-4.245	81.798	49.682	1.00	23.03	O
ATOM	7226	CB	VAL	C	78	-2.595	80.526	52.336	1.00	20.33	C
ATOM	7227	CG1	VAL	C	78	-3.596	81.599	52.882	1.00	18.67	C
ATOM	7228	CG2	VAL	C	78	-2.675	79.270	53.224	1.00	20.77	C
ATOM	7229	N	GLN	C	79	-2.026	82.067	49.678	1.00	21.80	N
ATOM	7230	CA	GLN	C	79	-2.106	83.295	48.880	1.00	22.91	C
ATOM	7231	C	GLN	C	79	-2.732	83.066	47.498	1.00	24.90	C
ATOM	7232	O	GLN	C	79	-3.538	83.888	47.006	1.00	24.22	O
ATOM	7233	CB	GLN	C	79	-0.719	83.918	48.699	1.00	23.03	C
ATOM	7234	CG	GLN	C	79	-0.093	84.503	49.973	1.00	25.47	C
ATOM	7235	CD	GLN	C	79	-1.040	85.395	50.756	1.00	27.69	C
ATOM	7236	OE1	GLN	C	79	-1.974	86.015	50.190	1.00	27.97	O
ATOM	7237	NE2	GLN	C	79	-0.813	85.476	52.074	1.00	27.78	N
ATOM	7238	N	GLN	C	80	-2.362	81.960	46.861	1.00	22.44	N
ATOM	7239	CA	GLN	C	80	-2.900	81.618	45.555	1.00	23.39	C
ATOM	7240	C	GLN	C	80	-4.412	81.528	45.659	1.00	24.47	C
ATOM	7241	O	GLN	C	80	-5.116	81.970	44.757	1.00	26.24	O
ATOM	7242	CB	GLN	C	80	-2.289	80.274	45.078	1.00	22.49	C
ATOM	7243	CG	GLN	C	80	-0.824	80.425	44.653	1.00	21.19	C
ATOM	7244	CD	GLN	C	80	-0.130	79.083	44.437	1.00	22.19	C
ATOM	7245	OE1	GLN	C	80	-0.733	78.013	44.645	1.00	20.00	O
ATOM	7246	NE2	GLN	C	80	1.132	79.129	44.034	1.00	21.27	N
ATOM	7247	N	VAL	C	81	-4.912	80.983	46.761	1.00	25.17	N
ATOM	7248	CA	VAL	C	81	-6.342	80.835	46.937	1.00	25.63	C
ATOM	7249	C	VAL	C	81	-6.997	82.145	47.337	1.00	28.14	C
ATOM	7250	O	VAL	C	81	-8.090	82.470	46.844	1.00	29.36	O
ATOM	7251	CB	VAL	C	81	-6.660	79.762	47.974	1.00	26.35	C
ATOM	7252	CG1	VAL	C	81	-8.170	79.732	48.263	1.00	26.37	C
ATOM	7253	CG2	VAL	C	81	-6.198	78.382	47.431	1.00	21.19	C
ATOM	7254	N	ARG	C	82	-6.353	82.899	48.223	1.00	28.54	N
ATOM	7255	CA	ARG	C	82	-6.932	84.191	48.624	1.00	30.95	C
ATOM	7256	C	ARG	C	82	-7.024	85.070	47.373	1.00	31.26	C
ATOM	7257	O	ARG	C	82	-7.980	85.841	47.207	1.00	33.51	O
ATOM	7258	CB	ARG	C	82	-6.065	84.884	49.693	1.00	31.80	C
ATOM	7259	CG	ARG	C	82	-6.456	86.352	50.042	1.00	31.97	C
ATOM	7260	CD	ARG	C	82	-7.735	86.485	50.877	1.00	32.18	C
ATOM	7261	NE	ARG	C	82	-7.535	86.065	52.261	1.00	33.37	N
ATOM	7262	CZ	ARG	C	82	-8.496	85.989	53.184	1.00	34.67	C
ATOM	7263	NH1	ARG	C	82	-9.753	86.311	52.898	1.00	33.74	N
ATOM	7264	NH2	ARG	C	82	-8.202	85.560	54.411	1.00	35.31	N
ATOM	7265	N	ALA	C	83	-6.045	84.937	46.482	1.00	30.62	N
ATOM	7266	CA	ALA	C	83	-6.018	85.741	45.267	1.00	30.16	C
ATOM	7267	C	ALA	C	83	-6.974	85.298	44.155	1.00	29.76	C
ATOM	7268	O	ALA	C	83	-6.977	85.886	43.082	1.00	31.86	O
ATOM	7269	CB	ALA	C	83	-4.598	85.817	44.740	1.00	29.51	C
ATOM	7270	N	GLY	C	84	-7.785	84.266	44.392	1.00	29.88	N
ATOM	7271	CA	GLY	C	84	-8.731	83.841	43.373	1.00	29.04	C
ATOM	7272	C	GLY	C	84	-8.542	82.535	42.607	1.00	29.26	C
ATOM	7273	O	GLY	C	84	-9.439	82.130	41.865	1.00	29.92	O



ATOM	7274	N	LEU	C	85	-7.407	81.857	42.774	1.00	27.97	N
ATOM	7275	CA	LEU	C	85	-7.175	80.611	42.053	1.00	25.53	C
ATOM	7276	C	LEU	C	85	-7.979	79.461	42.630	1.00	25.82	C
ATOM	7277	O	LEU	C	85	-8.321	79.424	43.813	1.00	25.07	O
ATOM	7278	CB	LEU	C	85	-5.671	80.308	42.004	1.00	24.54	C
ATOM	7279	CG	LEU	C	85	-4.871	81.479	41.397	1.00	23.70	C
ATOM	7280	CD1	LEU	C	85	-3.383	81.155	41.182	1.00	23.59	C
ATOM	7281	CD2	LEU	C	85	-5.522	81.820	40.059	1.00	25.79	C
ATOM	7282	N	LYS	C	86	-8.283	78.497	41.784	1.00	26.10	N
ATOM	7283	CA	LYS	C	86	-9.114	77.407	42.235	1.00	26.46	C
ATOM	7284	C	LYS	C	86	-8.433	76.049	42.244	1.00	25.88	C
ATOM	7285	O	LYS	C	86	-9.090	75.053	42.513	1.00	25.84	O
ATOM	7286	CB	LYS	C	86	-10.380	77.366	41.381	1.00	28.67	C
ATOM	7287	CG	LYS	C	86	-11.301	78.559	41.656	1.00	31.80	C
ATOM	7288	CD	LYS	C	86	-12.472	78.574	40.693	1.00	33.77	C
ATOM	7289	CE	LYS	C	86	-13.320	79.845	40.826	1.00	34.84	C
ATOM	7290	NZ	LYS	C	86	-14.195	79.831	42.048	1.00	38.27	N
ATOM	7291	N	ALA	C	87	-7.143	76.025	41.910	1.00	26.06	N
ATOM	7292	CA	ALA	C	87	-6.349	74.784	41.933	1.00	25.71	C
ATOM	7293	C	ALA	C	87	-4.914	75.095	42.326	1.00	24.74	C
ATOM	7294	O	ALA	C	87	-4.452	76.213	42.143	1.00	25.19	O
ATOM	7295	CB	ALA	C	87	-6.383	74.102	40.576	1.00	26.36	C
ATOM	7296	N	ILE	C	88	-4.207	74.116	42.897	1.00	22.27	N
ATOM	7297	CA	ILE	C	88	-2.814	74.324	43.260	1.00	22.12	C
ATOM	7298	C	ILE	C	88	-1.933	73.299	42.536	1.00	22.48	C
ATOM	7299	O	ILE	C	88	-2.304	72.123	42.417	1.00	23.20	O
ATOM	7300	CB	ILE	C	88	-2.644	74.211	44.811	1.00	23.45	C
ATOM	7301	CG1	ILE	C	88	-3.395	75.377	45.467	1.00	23.57	C
ATOM	7302	CG2	ILE	C	88	-1.173	74.294	45.208	1.00	21.92	C
ATOM	7303	CD1	ILE	C	88	-3.671	75.178	46.872	1.00	26.32	C
ATOM	7304	N	TYR	C	89	-0.796	73.756	42.021	1.00	21.24	N
ATOM	7305	CA	TYR	C	89	0.169	72.873	41.372	1.00	20.85	C
ATOM	7306	C	TYR	C	89	1.371	72.653	42.316	1.00	20.06	C
ATOM	7307	O	TYR	C	89	1.948	73.626	42.819	1.00	21.08	O
ATOM	7308	CB	TYR	C	89	0.685	73.476	40.052	1.00	19.01	C
ATOM	7309	CG	TYR	C	89	1.635	72.547	39.362	1.00	19.46	C
ATOM	7310	CD1	TYR	C	89	1.193	71.289	38.893	1.00	18.54	C
ATOM	7311	CD2	TYR	C	89	3.007	72.851	39.273	1.00	18.76	C
ATOM	7312	CE1	TYR	C	89	2.117	70.374	38.361	1.00	19.45	C
ATOM	7313	CE2	TYR	C	89	3.904	71.946	38.758	1.00	17.55	C
ATOM	7314	CZ	TYR	C	89	3.456	70.716	38.305	1.00	18.93	C
ATOM	7315	OH	TYR	C	89	4.368	69.820	37.786	1.00	18.98	O
ATOM	7316	N	LEU	C	90	1.761	71.385	42.526	1.00	19.09	N
ATOM	7317	CA	LEU	C	90	2.884	71.041	43.406	1.00	18.26	C
ATOM	7318	C	LEU	C	90	3.965	70.416	42.540	1.00	19.81	C
ATOM	7319	O	LEU	C	90	3.904	69.252	42.125	1.00	19.75	O
ATOM	7320	CB	LEU	C	90	2.388	70.122	44.521	1.00	19.22	C
ATOM	7321	CG	LEU	C	90	3.219	69.442	45.633	1.00	21.51	C
ATOM	7322	CD1	LEU	C	90	4.672	69.803	45.608	1.00	17.97	C
ATOM	7323	CD2	LEU	C	90	2.518	69.694	46.941	1.00	20.26	C
ATOM	7324	N	SER	C	91	4.946	71.260	42.244	1.00	16.82	N
ATOM	7325	CA	SER	C	91	6.098	70.979	41.406	1.00	17.05	C
ATOM	7326	C	SER	C	91	7.183	70.146	42.078	1.00	16.40	C
ATOM	7327	O	SER	C	91	7.643	70.513	43.159	1.00	16.35	O
ATOM	7328	CB	SER	C	91	6.748	72.314	41.014	1.00	17.59	C
ATOM	7329	OG	SER	C	91	7.945	72.078	40.311	1.00	18.26	O
ATOM	7330	N	GLY	C	92	7.628	69.087	41.393	1.00	16.03	N
ATOM	7331	CA	GLY	C	92	8.702	68.245	41.911	1.00	15.84	C
ATOM	7332	C	GLY	C	92	10.015	69.016	41.786	1.00	17.24	C
ATOM	7333	O	GLY	C	92	10.914	68.860	42.610	1.00	16.56	O
ATOM	7334	N	TRP	C	93	10.102	69.870	40.760	1.00	16.14	N
ATOM	7335	CA	TRP	C	93	11.292	70.675	40.514	1.00	18.01	C
ATOM	7336	C	TRP	C	93	11.466	71.625	41.682	1.00	15.16	C
ATOM	7337	O	TRP	C	93	12.549	71.743	42.190	1.00	16.91	O
ATOM	7338	CB	TRP	C	93	11.161	71.494	39.217	1.00	18.07	C
ATOM	7339	CG	TRP	C	93	12.423	72.286	38.818	1.00	19.66	C
ATOM	7340	CD1	TRP	C	93	13.247	72.012	37.771	1.00	20.46	C
ATOM	7341	CD2	TRP	C	93	12.983	73.458	39.467	1.00	18.33	C
ATOM	7342	NE1	TRP	C	93	14.289	72.920	37.722	1.00	21.08	N
ATOM	7343	CE2	TRP	C	93	14.154	73.816	38.745	1.00	20.09	C
ATOM	7344	CE3	TRP	C	93	12.613	74.232	40.575	1.00	16.46	C
ATOM	7345	CZ2	TRP	C	93	14.969	74.928	39.105	1.00	19.55	C
ATOM	7346	CZ3	TRP	C	93	13.413	75.336	40.931	1.00	19.10	C
ATOM	7347	CH2	TRP	C	93	14.578	75.662	40.192	1.00	16.38	C
ATOM	7348	N	GLN	C	94	10.407	72.282	42.140	1.00	16.41	N
ATOM	7349	CA	GLN	C	94	10.560	73.206	43.286	1.00	16.12	C
ATOM	7350	C	GLN	C	94	10.922	72.483	44.615	1.00	16.51	C
ATOM	7351	O	GLN	C	94	11.642	73.019	45.467	1.00	14.18	O
ATOM	7352	CB	GLN	C	94	9.274	74.006	43.461	1.00	18.30	C
ATOM	7353	CG	GLN	C	94	8.974	74.885	42.266	1.00	18.17	C



ATOM	7354	CD	GLN	C	94	7.810	75.799	42.545	1.00	18.31	C
ATOM	7355	OE1	GLN	C	94	6.845	75.427	43.252	1.00	18.48	O
ATOM	7356	NE2	GLN	C	94	7.873	76.995	41.994	1.00	20.61	N
ATOM	7357	N	VAL	C	95	10.388	71.277	44.784	1.00	15.39	N
ATOM	7358	CA	VAL	C	95	10.665	70.438	45.939	1.00	14.32	C
ATOM	7359	C	VAL	C	95	12.147	70.069	45.882	1.00	13.20	C
ATOM	7360	O	VAL	C	95	12.824	70.136	46.901	1.00	12.40	O
ATOM	7361	CB	VAL	C	95	9.748	69.172	45.888	1.00	14.88	C
ATOM	7362	CG1	VAL	C	95	10.258	68.055	46.757	1.00	15.80	C
ATOM	7363	CG2	VAL	C	95	8.338	69.588	46.382	1.00	12.93	C
ATOM	7364	N	ALA	C	96	12.649	69.688	44.710	1.00	12.53	N
ATOM	7365	CA	ALA	C	96	14.071	69.315	44.599	1.00	13.47	C
ATOM	7366	C	ALA	C	96	14.941	70.522	44.967	1.00	15.33	C
ATOM	7367	O	ALA	C	96	15.960	70.414	45.651	1.00	16.39	O
ATOM	7368	CB	ALA	C	96	14.410	68.912	43.184	1.00	14.25	C
ATOM	7369	N	GLY	C	97	14.527	71.676	44.470	1.00	16.26	N
ATOM	7370	CA	GLY	C	97	15.303	72.869	44.720	1.00	17.52	C
ATOM	7371	C	GLY	C	97	15.197	73.528	46.079	1.00	18.59	C
ATOM	7372	O	GLY	C	97	16.182	74.120	46.536	1.00	18.67	O
ATOM	7373	N	ASP	C	98	14.065	73.425	46.770	1.00	18.07	N
ATOM	7374	CA	ASP	C	98	13.984	74.172	48.021	1.00	17.16	C
ATOM	7375	C	ASP	C	98	13.013	73.627	49.066	1.00	17.09	C
ATOM	7376	O	ASP	C	98	12.735	74.308	50.065	1.00	16.77	O
ATOM	7377	CB	ASP	C	98	13.602	75.639	47.643	1.00	17.76	C
ATOM	7378	CG	ASP	C	98	13.943	76.688	48.718	1.00	19.62	C
ATOM	7379	OD1	ASP	C	98	14.911	76.498	49.504	1.00	21.08	O
ATOM	7380	OD2	ASP	C	98	13.220	77.736	48.736	1.00	19.61	O
ATOM	7381	N	ALA	C	99	12.477	72.419	48.848	1.00	15.09	N
ATOM	7382	CA	ALA	C	99	11.538	71.863	49.827	1.00	15.13	C
ATOM	7383	C	ALA	C	99	11.479	70.315	49.887	1.00	16.63	C
ATOM	7384	O	ALA	C	99	10.395	69.704	49.833	1.00	18.61	O
ATOM	7385	CB	ALA	C	99	10.125	72.447	49.581	1.00	15.92	C
ATOM	7386	N	ASN	C	100	12.628	69.675	49.995	1.00	15.02	N
ATOM	7387	CA	ASN	C	100	12.587	68.197	50.064	1.00	14.32	C
ATOM	7388	C	ASN	C	100	13.166	67.681	51.372	1.00	16.25	C
ATOM	7389	O	ASN	C	100	13.860	68.418	52.097	1.00	14.77	O
ATOM	7390	CB	ASN	C	100	13.246	67.561	48.836	1.00	12.39	C
ATOM	7391	CG	ASN	C	100	14.742	67.747	48.811	1.00	16.73	C
ATOM	7392	OD1	ASN	C	100	15.256	68.674	48.167	1.00	18.66	O
ATOM	7393	ND2	ASN	C	100	15.448	66.877	49.484	1.00	9.13	N
ATOM	7394	N	LEU	C	101	12.796	66.438	51.716	1.00	15.27	N
ATOM	7395	CA	LEU	C	101	13.189	65.798	52.986	1.00	14.99	C
ATOM	7396	C	LEU	C	101	14.696	65.541	53.252	1.00	13.65	C
ATOM	7397	O	LEU	C	101	15.084	65.215	54.381	1.00	11.64	O
ATOM	7398	CB	LEU	C	101	12.401	64.474	53.125	1.00	17.22	C
ATOM	7399	CG	LEU	C	101	11.057	64.420	53.878	1.00	21.71	C
ATOM	7400	CD1	LEU	C	101	10.589	65.781	54.144	1.00	15.35	C
ATOM	7401	CD2	LEU	C	101	9.984	63.563	53.170	1.00	14.07	C
ATOM	7402	N	SER	C	102	15.538	65.643	52.228	1.00	14.35	N
ATOM	7403	CA	SER	C	102	16.966	65.446	52.462	1.00	15.40	C
ATOM	7404	C	SER	C	102	17.587	66.727	53.038	1.00	14.83	C
ATOM	7405	O	SER	C	102	18.687	66.685	53.608	1.00	15.69	O
ATOM	7406	CB	SER	C	102	17.713	65.129	51.167	1.00	18.31	C
ATOM	7407	OG	SER	C	102	17.828	66.340	50.424	1.00	17.48	O
ATOM	7408	N	GLY	C	103	16.887	67.846	52.901	1.00	16.42	N
ATOM	7409	CA	GLY	C	103	17.408	69.142	53.355	1.00	16.69	C
ATOM	7410	C	GLY	C	103	18.339	69.796	52.321	1.00	17.87	C
ATOM	7411	O	GLY	C	103	18.793	70.925	52.497	1.00	18.31	O
ATOM	7412	N	HIS	C	104	18.607	69.091	51.240	1.00	17.06	N
ATOM	7413	CA	HIS	C	104	19.492	69.583	50.183	1.00	16.83	C
ATOM	7414	C	HIS	C	104	18.838	70.270	48.980	1.00	16.59	C
ATOM	7415	O	HIS	C	104	17.638	70.123	48.687	1.00	18.00	O
ATOM	7416	CB	HIS	C	104	20.384	68.429	49.705	1.00	18.16	C
ATOM	7417	CG	HIS	C	104	21.526	68.133	50.627	1.00	19.96	C
ATOM	7418	ND1	HIS	C	104	21.678	66.930	51.285	1.00	19.31	N
ATOM	7419	CD2	HIS	C	104	22.556	68.917	51.028	1.00	17.19	C
ATOM	7420	CE1	HIS	C	104	22.752	66.988	52.056	1.00	19.15	C
ATOM	7421	NE2	HIS	C	104	23.298	68.186	51.919	1.00	22.47	N
ATOM	7422	N	THR	C	105	19.639	71.111	48.332	1.00	18.16	N
ATOM	7423	CA	THR	C	105	19.245	71.784	47.109	1.00	17.23	C
ATOM	7424	C	THR	C	105	19.635	70.851	45.960	1.00	16.91	C
ATOM	7425	O	THR	C	105	20.801	70.484	45.845	1.00	15.97	O
ATOM	7426	CB	THR	C	105	20.039	73.107	46.916	1.00	17.14	C
ATOM	7427	OG1	THR	C	105	19.724	74.017	47.978	1.00	18.30	O
ATOM	7428	CG2	THR	C	105	19.707	73.725	45.534	1.00	19.24	C
ATOM	7429	N	TYR	C	106	18.674	70.476	45.104	1.00	15.31	N
ATOM	7430	CA	TYR	C	106	18.970	69.598	43.980	1.00	16.76	C
ATOM	7431	C	TYR	C	106	18.393	70.043	42.662	1.00	14.31	C
ATOM	7432	O	TYR	C	106	17.389	70.763	42.617	1.00	16.31	O
ATOM	7433	CB	TYR	C	106	18.361	68.186	44.170	1.00	14.28	C



ATOM	7434	CG	TYR	C	106	18.892	67.378	45.315	1.00	16.64	C
ATOM	7435	CD1	TYR	C	106	20.269	67.066	45.406	1.00	15.59	C
ATOM	7436	CD2	TYR	C	106	18.027	66.835	46.259	1.00	14.17	C
ATOM	7437	CE1	TYR	C	106	20.754	66.218	46.387	1.00	16.42	C
ATOM	7438	CE2	TYR	C	106	18.520	65.962	47.279	1.00	15.28	C
ATOM	7439	CZ	TYR	C	106	19.894	65.660	47.317	1.00	15.08	C
ATOM	7440	OH	TYR	C	106	20.419	64.779	48.262	1.00	17.10	O
ATOM	7441	N	PRO	C	107	19.019	69.601	41.565	1.00	16.73	N
ATOM	7442	CA	PRO	C	107	18.530	69.910	40.217	1.00	16.50	C
ATOM	7443	C	PRO	C	107	17.379	68.856	40.071	1.00	19.15	C
ATOM	7444	O	PRO	C	107	17.273	67.940	40.891	1.00	17.74	O
ATOM	7445	CB	PRO	C	107	19.731	69.599	39.327	1.00	17.35	C
ATOM	7446	CG	PRO	C	107	20.479	68.565	40.055	1.00	18.01	C
ATOM	7447	CD	PRO	C	107	20.377	69.036	41.510	1.00	13.32	C
ATOM	7448	N	ASP	C	108	16.532	69.014	39.061	1.00	19.68	N
ATOM	7449	CA	ASP	C	108	15.363	68.153	38.842	1.00	19.87	C
ATOM	7450	C	ASP	C	108	15.717	66.789	38.241	1.00	17.25	C
ATOM	7451	O	ASP	C	108	15.518	66.567	37.057	1.00	21.07	O
ATOM	7452	CB	ASP	C	108	14.435	68.920	37.925	1.00	19.93	C
ATOM	7453	CG	ASP	C	108	13.035	68.403	37.933	1.00	22.32	C
ATOM	7454	OD1	ASP	C	108	12.676	67.673	38.883	1.00	22.71	O
ATOM	7455	OD2	ASP	C	108	12.297	68.768	36.991	1.00	19.48	O
ATOM	7456	N	GLN	C	109	16.217	65.874	39.062	1.00	15.78	N
ATOM	7457	CA	GLN	C	109	16.660	64.563	38.579	1.00	15.80	C
ATOM	7458	C	GLN	C	109	16.249	63.423	39.523	1.00	14.02	C
ATOM	7459	O	GLN	C	109	16.975	62.466	39.657	1.00	15.54	O
ATOM	7460	CB	GLN	C	109	18.191	64.560	38.418	1.00	16.94	C
ATOM	7461	CG	GLN	C	109	18.664	65.657	37.477	1.00	21.36	C
ATOM	7462	CD	GLN	C	109	20.147	65.613	37.146	1.00	22.28	C
ATOM	7463	OE1	GLN	C	109	20.677	64.610	36.649	1.00	21.14	O
ATOM	7464	NE2	GLN	C	109	20.821	66.734	37.404	1.00	21.29	N
ATOM	7465	N	SER	C	110	15.086	63.543	40.158	1.00	15.25	N
ATOM	7466	CA	SER	C	110	14.623	62.520	41.096	1.00	15.29	C
ATOM	7467	C	SER	C	110	15.693	62.114	42.100	1.00	15.82	C
ATOM	7468	O	SER	C	110	15.916	60.930	42.339	1.00	14.08	O
ATOM	7469	CB	SER	C	110	14.141	61.296	40.334	1.00	15.95	C
ATOM	7470	OG	SER	C	110	12.894	61.615	39.716	1.00	18.90	O
ATOM	7471	N	LEU	C	111	16.348	63.109	42.703	1.00	15.30	N
ATOM	7472	CA	LEU	C	111	17.412	62.852	43.685	1.00	14.53	C
ATOM	7473	C	LEU	C	111	16.899	62.854	45.141	1.00	13.82	C
ATOM	7474	O	LEU	C	111	17.491	62.249	45.991	1.00	15.42	O
ATOM	7475	CB	LEU	C	111	18.510	63.941	43.542	1.00	15.42	C
ATOM	7476	CG	LEU	C	111	19.402	63.800	42.304	1.00	17.95	C
ATOM	7477	CD1	LEU	C	111	20.309	65.035	42.130	1.00	15.44	C
ATOM	7478	CD2	LEU	C	111	20.270	62.570	42.476	1.00	18.29	C
ATOM	7479	N	TYR	C	112	15.791	63.523	45.413	1.00	13.14	N
ATOM	7480	CA	TYR	C	112	15.292	63.651	46.772	1.00	11.13	C
ATOM	7481	C	TYR	C	112	14.498	62.416	47.231	1.00	10.09	C
ATOM	7482	O	TYR	C	112	14.128	61.610	46.419	1.00	12.41	O
ATOM	7483	CB	TYR	C	112	14.464	64.941	46.860	1.00	13.15	C
ATOM	7484	CG	TYR	C	112	13.264	64.981	45.948	1.00	14.00	C
ATOM	7485	CD1	TYR	C	112	12.106	64.259	46.271	1.00	13.91	C
ATOM	7486	CD2	TYR	C	112	13.247	65.788	44.788	1.00	15.03	C
ATOM	7487	CE1	TYR	C	112	10.983	64.345	45.503	1.00	13.19	C
ATOM	7488	CE2	TYR	C	112	12.124	65.869	43.985	1.00	14.99	C
ATOM	7489	CZ	TYR	C	112	10.971	65.134	44.354	1.00	16.04	C
ATOM	7490	OH	TYR	C	112	9.844	65.166	43.545	1.00	15.22	O
ATOM	7491	N	PRO	C	113	14.304	62.247	48.538	1.00	10.96	N
ATOM	7492	CA	PRO	C	113	13.557	61.088	49.064	1.00	10.95	C
ATOM	7493	C	PRO	C	113	12.144	61.084	48.497	1.00	10.92	C
ATOM	7494	O	PRO	C	113	11.457	62.094	48.545	1.00	10.74	O
ATOM	7495	CB	PRO	C	113	13.578	61.320	50.567	1.00	11.84	C
ATOM	7496	CG	PRO	C	113	14.938	62.101	50.753	1.00	11.66	C
ATOM	7497	CD	PRO	C	113	14.855	63.066	49.632	1.00	10.94	C
ATOM	7498	N	ALA	C	114	11.696	59.915	48.048	1.00	11.12	N
ATOM	7499	CA	ALA	C	114	10.390	59.781	47.421	1.00	11.60	C
ATOM	7500	C	ALA	C	114	9.160	60.179	48.194	1.00	13.22	C
ATOM	7501	O	ALA	C	114	8.106	60.198	47.572	1.00	11.00	O
ATOM	7502	CB	ALA	C	114	10.172	58.349	46.905	1.00	11.74	C
ATOM	7503	N	ASN	C	115	9.247	60.420	49.501	1.00	11.28	N
ATOM	7504	CA	ASN	C	115	8.050	60.841	50.244	1.00	12.73	C
ATOM	7505	C	ASN	C	115	8.040	62.375	50.400	1.00	12.43	C
ATOM	7506	O	ASN	C	115	7.236	62.934	51.154	1.00	12.31	O
ATOM	7507	CB	ASN	C	115	7.922	60.133	51.617	1.00	12.38	C
ATOM	7508	CG	ASN	C	115	9.095	60.404	52.555	1.00	14.61	C
ATOM	7509	OD1	ASN	C	115	10.222	60.576	52.116	1.00	13.12	O
ATOM	7510	ND2	ASN	C	115	8.836	60.357	53.855	1.00	15.54	N
ATOM	7511	N	SER	C	116	8.886	63.050	49.622	1.00	11.04	N
ATOM	7512	CA	SER	C	116	8.962	64.513	49.744	1.00	11.97	C
ATOM	7513	C	SER	C	116	7.742	65.257	49.242	1.00	12.81	C



ATOM	7514	O	SER	C	116	7.232	66.164	49.954	1.00	12.74	O
ATOM	7515	CB	SER	C	116	10.238	65.073	49.056	1.00	12.99	C
ATOM	7516	OG	SER	C	116	11.416	64.610	49.735	1.00	13.11	O
ATOM	7517	N	VAL	C	117	7.240	64.888	48.066	1.00	12.72	N
ATOM	7518	CA	VAL	C	117	6.070	65.593	47.544	1.00	14.57	C
ATOM	7519	C	VAL	C	117	4.862	65.334	48.446	1.00	14.22	C
ATOM	7520	O	VAL	C	117	4.132	66.254	48.741	1.00	15.52	O
ATOM	7521	CB	VAL	C	117	5.845	65.255	46.041	1.00	13.61	C
ATOM	7522	CG1	VAL	C	117	4.477	65.818	45.547	1.00	13.32	C
ATOM	7523	CG2	VAL	C	117	7.005	65.921	45.213	1.00	12.67	C
ATOM	7524	N	PRO	C	118	4.616	64.066	48.876	1.00	13.60	N
ATOM	7525	CA	PRO	C	118	3.465	63.824	49.770	1.00	14.34	C
ATOM	7526	C	PRO	C	118	3.482	64.726	51.012	1.00	12.90	C
ATOM	7527	O	PRO	C	118	2.452	65.257	51.461	1.00	13.77	O
ATOM	7528	CB	PRO	C	118	3.614	62.346	50.154	1.00	13.59	C
ATOM	7529	CG	PRO	C	118	4.210	61.739	48.861	1.00	13.64	C
ATOM	7530	CD	PRO	C	118	5.207	62.807	48.376	1.00	13.50	C
ATOM	7531	N	GLN	C	119	4.651	64.891	51.613	1.00	12.76	N
ATOM	7532	CA	GLN	C	119	4.720	65.735	52.788	1.00	12.79	C
ATOM	7533	C	GLN	C	119	4.388	67.193	52.413	1.00	12.77	C
ATOM	7534	O	GLN	C	119	3.802	67.886	53.213	1.00	12.82	O
ATOM	7535	CB	GLN	C	119	6.118	65.663	53.404	1.00	15.67	C
ATOM	7536	CG	GLN	C	119	6.351	64.405	54.226	1.00	21.60	C
ATOM	7537	CD	GLN	C	119	5.424	64.327	55.430	1.00	24.09	C
ATOM	7538	OE1	GLN	C	119	4.288	63.827	55.343	1.00	27.72	O
ATOM	7539	NE2	GLN	C	119	5.892	64.839	56.558	1.00	27.14	N
ATOM	7540	N	VAL	C	120	4.730	67.632	51.208	1.00	12.90	N
ATOM	7541	CA	VAL	C	120	4.412	69.023	50.837	1.00	15.60	C
ATOM	7542	C	VAL	C	120	2.902	69.108	50.537	1.00	17.03	C
ATOM	7543	O	VAL	C	120	2.265	70.161	50.739	1.00	16.78	O
ATOM	7544	CB	VAL	C	120	5.265	69.523	49.619	1.00	16.66	C
ATOM	7545	CG1	VAL	C	120	4.779	70.924	49.162	1.00	18.37	C
ATOM	7546	CG2	VAL	C	120	6.699	69.650	50.038	1.00	18.66	C
ATOM	7547	N	VAL	C	121	2.335	68.000	50.061	1.00	14.91	N
ATOM	7548	CA	VAL	C	121	0.906	67.987	49.797	1.00	17.27	C
ATOM	7549	C	VAL	C	121	0.171	68.100	51.122	1.00	15.97	C
ATOM	7550	O	VAL	C	121	-0.828	68.840	51.229	1.00	16.29	O
ATOM	7551	CB	VAL	C	121	0.464	66.695	49.089	1.00	15.33	C
ATOM	7552	CG1	VAL	C	121	-1.041	66.567	49.152	1.00	14.28	C
ATOM	7553	CG2	VAL	C	121	0.958	66.689	47.636	1.00	14.99	C
ATOM	7554	N	ARG	C	122	0.648	67.390	52.153	1.00	13.32	N
ATOM	7555	CA	ARG	C	122	0.002	67.429	53.450	1.00	12.99	C
ATOM	7556	C	ARG	C	122	0.129	68.826	54.056	1.00	14.25	C
ATOM	7557	O	ARG	C	122	-0.793	69.305	54.688	1.00	14.79	O
ATOM	7558	CB	ARG	C	122	0.619	66.339	54.382	1.00	13.12	C
ATOM	7559	CG	ARG	C	122	0.103	66.303	55.808	1.00	12.48	C
ATOM	7560	CD	ARG	C	122	-1.372	65.804	55.887	1.00	15.03	C
ATOM	7561	NE	ARG	C	122	-2.311	66.930	55.915	1.00	16.20	N
ATOM	7562	CZ	ARG	C	122	-3.636	66.796	55.995	1.00	16.96	C
ATOM	7563	NH1	ARG	C	122	-4.176	65.594	56.026	1.00	14.62	N
ATOM	7564	NH2	ARG	C	122	-4.413	67.868	56.109	1.00	16.83	N
ATOM	7565	N	ARG	C	123	1.289	69.457	53.841	1.00	12.93	N
ATOM	7566	CA	ARG	C	123	1.577	70.800	54.350	1.00	14.20	C
ATOM	7567	C	ARG	C	123	0.625	71.834	53.774	1.00	14.70	C
ATOM	7568	O	ARG	C	123	0.095	72.652	54.506	1.00	14.67	O
ATOM	7569	CB	ARG	C	123	3.006	71.200	54.003	1.00	12.23	C
ATOM	7570	CG	ARG	C	123	3.360	72.691	54.208	1.00	13.69	C
ATOM	7571	CD	ARG	C	123	3.017	73.174	55.616	1.00	13.16	C
ATOM	7572	NE	ARG	C	123	2.999	74.647	55.690	1.00	14.66	N
ATOM	7573	CZ	ARG	C	123	2.203	75.342	56.499	1.00	18.48	C
ATOM	7574	NH1	ARG	C	123	1.362	74.697	57.310	1.00	17.43	N
ATOM	7575	NH2	ARG	C	123	2.190	76.667	56.447	1.00	17.75	N
ATOM	7576	N	ILE	C	124	0.412	71.759	52.469	1.00	16.40	N
ATOM	7577	CA	ILE	C	124	-0.461	72.699	51.770	1.00	16.87	C
ATOM	7578	C	ILE	C	124	-1.904	72.554	52.249	1.00	17.33	C
ATOM	7579	O	ILE	C	124	-2.595	73.556	52.509	1.00	19.59	O
ATOM	7580	CB	ILE	C	124	-0.323	72.480	50.266	1.00	18.43	C
ATOM	7581	CG1	ILE	C	124	1.031	73.064	49.814	1.00	18.13	C
ATOM	7582	CG2	ILE	C	124	-1.545	73.093	49.525	1.00	15.41	C
ATOM	7583	CD1	ILE	C	124	1.432	72.719	48.379	1.00	21.75	C
ATOM	7584	N	ASN	C	125	-2.362	71.316	52.384	1.00	15.63	N
ATOM	7585	CA	ASN	C	125	-3.699	71.088	52.879	1.00	17.27	C
ATOM	7586	C	ASN	C	125	-3.824	71.624	54.300	1.00	18.36	C
ATOM	7587	O	ASN	C	125	-4.844	72.251	54.649	1.00	17.95	O
ATOM	7588	CB	ASN	C	125	-4.053	69.603	52.849	1.00	18.59	C
ATOM	7589	CG	ASN	C	125	-4.666	69.188	51.547	1.00	21.32	C
ATOM	7590	OD1	ASN	C	125	-5.509	69.916	50.980	1.00	18.67	O
ATOM	7591	ND2	ASN	C	125	-4.266	68.010	51.051	1.00	17.33	N
ATOM	7592	N	ASN	C	126	-2.794	71.392	55.132	1.00	15.27	N
ATOM	7593	CA	ASN	C	126	-2.825	71.902	56.496	1.00	16.40	C



ATOM	7594	C	ASN	C	126	-2.970	73.405	56.536	1.00	16.96	C
ATOM	7595	O	ASN	C	126	-3.730	73.953	57.383	1.00	17.44	O
ATOM	7596	CB	ASN	C	126	-1.544	71.532	57.247	1.00	15.01	C
ATOM	7597	CG	ASN	C	126	-1.525	70.103	57.629	1.00	16.07	C
ATOM	7598	OD1	ASN	C	126	-2.548	69.416	57.553	1.00	15.52	O
ATOM	7599	ND2	ASN	C	126	-0.365	69.623	58.073	1.00	15.91	N
ATOM	7600	N	ALA	C	127	-2.223	74.064	55.652	1.00	15.92	N
ATOM	7601	CA	ALA	C	127	-2.232	75.516	55.597	1.00	18.28	C
ATOM	7602	C	ALA	C	127	-3.586	76.042	55.123	1.00	18.16	C
ATOM	7603	O	ALA	C	127	-4.090	77.024	55.653	1.00	19.27	O
ATOM	7604	CB	ALA	C	127	-1.109	76.014	54.669	1.00	14.69	C
ATOM	7605	N	LEU	C	128	-4.135	75.391	54.100	1.00	18.63	N
ATOM	7606	CA	LEU	C	128	-5.424	75.780	53.557	1.00	19.08	C
ATOM	7607	C	LEU	C	128	-6.477	75.517	54.627	1.00	19.36	C
ATOM	7608	O	LEU	C	128	-7.466	76.260	54.739	1.00	20.45	O
ATOM	7609	CB	LEU	C	128	-5.737	74.986	52.261	1.00	18.40	C
ATOM	7610	CG	LEU	C	128	-4.845	75.266	51.037	1.00	16.72	C
ATOM	7611	CD1	LEU	C	128	-5.264	74.314	49.910	1.00	19.40	C
ATOM	7612	CD2	LEU	C	128	-4.888	76.748	50.582	1.00	19.07	C
ATOM	7613	N	GLN	C	129	-6.299	74.451	55.404	1.00	19.25	N
ATOM	7614	CA	GLN	C	129	-7.255	74.182	56.463	1.00	19.61	C
ATOM	7615	C	GLN	C	129	-7.210	75.266	57.533	1.00	19.03	C
ATOM	7616	O	GLN	C	129	-8.254	75.632	58.077	1.00	18.60	O
ATOM	7617	CB	GLN	C	129	-7.019	72.820	57.098	1.00	19.92	C
ATOM	7618	CG	GLN	C	129	-7.501	71.678	56.234	1.00	21.59	C
ATOM	7619	CD	GLN	C	129	-7.148	70.376	56.846	1.00	24.94	C
ATOM	7620	OE1	GLN	C	129	-5.974	70.046	56.958	1.00	26.83	O
ATOM	7621	NE2	GLN	C	129	-8.158	69.615	57.267	1.00	27.31	N
ATOM	7622	N	ARG	C	130	-6.011	75.761	57.845	1.00	19.47	N
ATOM	7623	CA	ARG	C	130	-5.863	76.809	58.848	1.00	20.11	C
ATOM	7624	C	ARG	C	130	-6.639	78.045	58.337	1.00	20.90	C
ATOM	7625	O	ARG	C	130	-7.389	78.669	59.111	1.00	21.84	O
ATOM	7626	CB	ARG	C	130	-4.381	77.186	59.074	1.00	18.65	C
ATOM	7627	CG	ARG	C	130	-4.174	78.123	60.283	1.00	18.13	C
ATOM	7628	CD	ARG	C	130	-4.595	77.503	61.606	1.00	21.12	C
ATOM	7629	NE	ARG	C	130	-3.592	76.556	62.128	1.00	17.44	N
ATOM	7630	CZ	ARG	C	130	-3.864	75.420	62.777	1.00	17.67	C
ATOM	7631	NH1	ARG	C	130	-5.125	75.017	63.011	1.00	18.19	N
ATOM	7632	NH2	ARG	C	130	-2.847	74.670	63.227	1.00	18.18	N
ATOM	7633	N	ALA	C	131	-6.477	78.375	57.055	1.00	21.65	N
ATOM	7634	CA	ALA	C	131	-7.186	79.539	56.482	1.00	22.32	C
ATOM	7635	C	ALA	C	131	-8.698	79.335	56.491	1.00	23.69	C
ATOM	7636	O	ALA	C	131	-9.438	80.287	56.741	1.00	23.69	O
ATOM	7637	CB	ALA	C	131	-6.698	79.839	55.071	1.00	21.15	C
ATOM	7638	N	ASP	C	132	-9.155	78.114	56.222	1.00	22.64	N
ATOM	7639	CA	ASP	C	132	-10.591	77.797	56.244	1.00	23.42	C
ATOM	7640	C	ASP	C	132	-11.087	78.011	57.694	1.00	24.48	C
ATOM	7641	O	ASP	C	132	-12.141	78.624	57.927	1.00	22.83	O
ATOM	7642	CB	ASP	C	132	-10.824	76.336	55.793	1.00	26.00	C
ATOM	7643	CG	ASP	C	132	-12.283	75.898	55.895	1.00	26.98	C
ATOM	7644	OD1	ASP	C	132	-13.146	76.621	55.348	1.00	31.00	O
ATOM	7645	OD2	ASP	C	132	-12.577	74.839	56.508	1.00	25.64	O
ATOM	7646	N	GLN	C	133	-10.313	77.537	58.675	1.00	22.42	N
ATOM	7647	CA	GLN	C	133	-10.677	77.689	60.102	1.00	22.67	C
ATOM	7648	C	GLN	C	133	-10.793	79.156	60.543	1.00	23.84	C
ATOM	7649	O	GLN	C	133	-11.746	79.522	61.235	1.00	23.58	O
ATOM	7650	CB	GLN	C	133	-9.645	76.957	60.983	1.00	21.09	C
ATOM	7651	CG	GLN	C	133	-9.701	75.446	60.822	1.00	21.87	C
ATOM	7652	CD	GLN	C	133	-8.396	74.765	61.293	1.00	23.52	C
ATOM	7653	OE1	GLN	C	133	-8.290	73.543	61.289	1.00	27.74	O
ATOM	7654	NE2	GLN	C	133	-7.417	75.566	61.686	1.00	23.09	N
ATOM	7655	N	ILE	C	134	-9.826	79.971	60.118	1.00	23.69	N
ATOM	7656	CA	ILE	C	134	-9.757	81.380	60.447	1.00	24.45	C
ATOM	7657	C	ILE	C	134	-10.934	82.094	59.791	1.00	26.17	C
ATOM	7658	O	ILE	C	134	-11.680	82.824	60.457	1.00	25.88	O
ATOM	7659	CB	ILE	C	134	-8.411	81.969	59.962	1.00	23.41	C
ATOM	7660	CG1	ILE	C	134	-7.273	81.355	60.783	1.00	22.28	C
ATOM	7661	CG2	ILE	C	134	-8.346	83.493	60.154	1.00	23.77	C
ATOM	7662	CD1	ILE	C	134	-5.964	81.652	60.175	1.00	20.75	C
ATOM	7663	N	ALA	C	135	-11.131	81.840	58.496	1.00	27.27	N
ATOM	7664	CA	ALA	C	135	-12.222	82.482	57.775	1.00	28.31	C
ATOM	7665	C	ALA	C	135	-13.550	82.250	58.485	1.00	28.92	C
ATOM	7666	O	ALA	C	135	-14.374	83.183	58.614	1.00	29.96	O
ATOM	7667	CB	ALA	C	135	-12.280	81.957	56.341	1.00	27.99	C
ATOM	7668	N	LYS	C	136	-13.762	81.032	58.964	1.00	27.74	N
ATOM	7669	CA	LYS	C	136	-15.012	80.706	59.635	1.00	29.32	C
ATOM	7670	C	LYS	C	136	-15.220	81.520	60.922	1.00	30.28	C
ATOM	7671	O	LYS	C	136	-16.339	82.005	61.165	1.00	30.69	O
ATOM	7672	CB	LYS	C	136	-15.094	79.201	59.917	1.00	28.78	C
ATOM	7673	CG	LYS	C	136	-16.442	78.764	60.404	1.00	27.39	C



ATOM	7674	CD	LYS	C	136	-16.523	77.273	60.605	1.00	28.46	C
ATOM	7675	CE	LYS	C	136	-17.862	76.874	61.187	1.00	29.38	C
ATOM	7676	NZ	LYS	C	136	-18.017	75.394	61.348	1.00	30.50	N
ATOM	7677	N	ILE	C	137	-14.172	81.693	61.733	1.00	29.56	N
ATOM	7678	CA	ILE	C	137	-14.313	82.477	62.975	1.00	30.31	C
ATOM	7679	C	ILE	C	137	-14.359	83.990	62.727	1.00	30.50	C
ATOM	7680	O	ILE	C	137	-14.882	84.744	63.564	1.00	29.97	O
ATOM	7681	CB	ILE	C	137	-13.182	82.204	64.014	1.00	30.11	C
ATOM	7682	CG1	ILE	C	137	-11.833	82.543	63.428	1.00	29.46	C
ATOM	7683	CG2	ILE	C	137	-13.235	80.763	64.470	1.00	28.83	C
ATOM	7684	CD1	ILE	C	137	-10.713	82.588	64.458	1.00	30.64	C
ATOM	7685	N	GLU	C	138	-13.795	84.431	61.610	1.00	29.30	N
ATOM	7686	CA	GLU	C	138	-13.820	85.845	61.254	1.00	31.77	C
ATOM	7687	C	GLU	C	138	-15.076	86.090	60.395	1.00	33.17	C
ATOM	7688	O	GLU	C	138	-15.366	87.228	59.998	1.00	33.99	O
ATOM	7689	CB	GLU	C	138	-12.581	86.239	60.443	1.00	31.08	C
ATOM	7690	CG	GLU	C	138	-11.269	86.204	61.210	1.00	33.13	C
ATOM	7691	CD	GLU	C	138	-10.074	86.642	60.354	1.00	33.91	C
ATOM	7692	OE1	GLU	C	138	-10.213	86.678	59.110	1.00	36.64	O
ATOM	7693	OE2	GLU	C	138	-8.987	86.943	60.909	1.00	35.82	O
ATOM	7694	N	GLY	C	139	-15.822	85.015	60.133	1.00	34.29	N
ATOM	7695	CA	GLY	C	139	-17.012	85.121	59.305	1.00	36.34	C
ATOM	7696	C	GLY	C	139	-16.677	85.739	57.948	1.00	37.75	C
ATOM	7697	O	GLY	C	139	-17.398	86.619	57.446	1.00	38.69	O
ATOM	7698	N	ASP	C	140	-15.569	85.291	57.363	1.00	37.60	N
ATOM	7699	CA	ASP	C	140	-15.115	85.760	56.057	1.00	36.81	C
ATOM	7700	C	ASP	C	140	-15.623	84.815	54.938	1.00	37.60	C
ATOM	7701	O	ASP	C	140	-15.289	83.617	54.904	1.00	34.47	O
ATOM	7702	CB	ASP	C	140	-13.586	85.825	56.042	1.00	38.64	C
ATOM	7703	CG	ASP	C	140	-13.034	86.291	54.712	1.00	39.54	C
ATOM	7704	OD1	ASP	C	140	-13.834	86.465	53.760	1.00	39.36	O
ATOM	7705	OD2	ASP	C	140	-11.801	86.484	54.623	1.00	38.95	O
ATOM	7706	N	THR	C	141	-16.460	85.351	54.046	1.00	37.37	N
ATOM	7707	CA	THR	C	141	-16.987	84.574	52.927	1.00	37.56	C
ATOM	7708	C	THR	C	141	-16.264	84.995	51.658	1.00	36.22	C
ATOM	7709	O	THR	C	141	-16.684	84.687	50.562	1.00	37.00	O
ATOM	7710	CB	THR	C	141	-18.476	84.808	52.700	1.00	39.55	C
ATOM	7711	OG1	THR	C	141	-18.699	86.218	52.590	1.00	40.34	O
ATOM	7712	CG2	THR	C	141	-19.311	84.202	53.828	1.00	38.33	C
ATOM	7713	N	SER	C	142	-15.170	85.714	51.821	1.00	36.97	N
ATOM	7714	CA	SER	C	142	-14.377	86.164	50.695	1.00	37.02	C
ATOM	7715	C	SER	C	142	-14.002	84.989	49.758	1.00	37.65	C
ATOM	7716	O	SER	C	142	-13.904	85.160	48.536	1.00	38.01	O
ATOM	7717	CB	SER	C	142	-13.128	86.847	51.253	1.00	37.74	C
ATOM	7718	OG	SER	C	142	-12.045	86.863	50.353	1.00	41.38	O
ATOM	7719	N	VAL	C	143	-13.795	83.802	50.329	1.00	35.79	N
ATOM	7720	CA	VAL	C	143	-13.422	82.639	49.527	1.00	33.75	C
ATOM	7721	C	VAL	C	143	-14.404	81.525	49.729	1.00	32.33	C
ATOM	7722	O	VAL	C	143	-14.699	81.128	50.842	1.00	32.85	O
ATOM	7723	CB	VAL	C	143	-12.011	82.153	49.872	1.00	33.19	C
ATOM	7724	CG1	VAL	C	143	-11.745	80.806	49.228	1.00	29.71	C
ATOM	7725	CG2	VAL	C	143	-11.002	83.175	49.389	1.00	32.25	C
ATOM	7726	N	GLU	C	144	-14.912	81.004	48.630	1.00	33.44	N
ATOM	7727	CA	GLU	C	144	-15.906	79.964	48.709	1.00	33.06	C
ATOM	7728	C	GLU	C	144	-15.345	78.574	48.996	1.00	31.94	C
ATOM	7729	O	GLU	C	144	-16.002	77.764	49.651	1.00	30.73	O
ATOM	7730	CB	GLU	C	144	-16.742	79.975	47.425	1.00	36.32	C
ATOM	7731	CG	GLU	C	144	-15.983	79.735	46.134	1.00	40.98	C
ATOM	7732	CD	GLU	C	144	-14.572	80.377	46.075	1.00	44.58	C
ATOM	7733	OE1	GLU	C	144	-14.465	81.631	46.128	1.00	44.65	O
ATOM	7734	OE2	GLU	C	144	-13.572	79.602	45.967	1.00	44.84	O
ATOM	7735	N	ASN	C	145	-14.147	78.292	48.508	1.00	30.60	N
ATOM	7736	CA	ASN	C	145	-13.555	76.983	48.751	1.00	29.63	C
ATOM	7737	C	ASN	C	145	-12.087	77.147	49.108	1.00	28.18	C
ATOM	7738	O	ASN	C	145	-11.244	77.364	48.223	1.00	29.70	O
ATOM	7739	CB	ASN	C	145	-13.667	76.086	47.518	1.00	30.06	C
ATOM	7740	CG	ASN	C	145	-13.214	74.650	47.797	1.00	29.99	C
ATOM	7741	OD1	ASN	C	145	-12.865	73.899	46.871	1.00	31.91	O
ATOM	7742	ND2	ASN	C	145	-13.240	74.261	49.069	1.00	25.80	N
ATOM	7743	N	TRP	C	146	-11.759	77.047	50.397	1.00	25.33	N
ATOM	7744	CA	TRP	C	146	-10.365	77.213	50.765	1.00	25.81	C
ATOM	7745	C	TRP	C	146	-9.574	75.973	50.390	1.00	25.27	C
ATOM	7746	O	TRP	C	146	-8.389	76.071	50.053	1.00	24.92	O
ATOM	7747	CB	TRP	C	146	-10.216	77.495	52.255	1.00	23.71	C
ATOM	7748	CG	TRP	C	146	-10.369	78.935	52.539	1.00	25.20	C
ATOM	7749	CD1	TRP	C	146	-11.448	79.555	53.102	1.00	25.15	C
ATOM	7750	CD2	TRP	C	146	-9.420	79.953	52.250	1.00	24.05	C
ATOM	7751	NE1	TRP	C	146	-11.219	80.909	53.185	1.00	25.57	N
ATOM	7752	CE2	TRP	C	146	-9.983	81.182	52.670	1.00	24.27	C
ATOM	7753	CE3	TRP	C	146	-8.150	79.953	51.676	1.00	22.09	C



ATOM	7754	CZ2	TRP	C	146	-9.302	82.415	52.532	1.00	25.46	C
ATOM	7755	CZ3	TRP	C	146	-7.470	81.177	51.532	1.00	25.58	C
ATOM	7756	CH2	TRP	C	146	-8.049	82.387	51.961	1.00	22.43	C
ATOM	7757	N	LEU	C	147	-10.250	74.829	50.424	1.00	23.94	N
ATOM	7758	CA	LEU	C	147	-9.591	73.558	50.089	1.00	24.12	C
ATOM	7759	C	LEU	C	147	-9.520	73.306	48.582	1.00	21.96	C
ATOM	7760	O	LEU	C	147	-10.176	72.435	48.070	1.00	23.05	O
ATOM	7761	CB	LEU	C	147	-10.308	72.433	50.806	1.00	25.85	C
ATOM	7762	CG	LEU	C	147	-9.815	72.443	52.249	1.00	29.22	C
ATOM	7763	CD1	LEU	C	147	-10.812	71.797	53.127	1.00	29.41	C
ATOM	7764	CD2	LEU	C	147	-8.451	71.684	52.332	1.00	29.70	C
ATOM	7765	N	ALA	C	148	-8.727	74.109	47.888	1.00	21.73	N
ATOM	7766	CA	ALA	C	148	-8.577	73.977	46.465	1.00	21.79	C
ATOM	7767	C	ALA	C	148	-7.907	72.655	46.164	1.00	21.94	C
ATOM	7768	O	ALA	C	148	-7.077	72.178	46.941	1.00	22.16	O
ATOM	7769	CB	ALA	C	148	-7.725	75.133	45.916	1.00	20.77	C
ATOM	7770	N	PRO	C	149	-8.268	72.019	45.039	1.00	22.02	N
ATOM	7771	CA	PRO	C	149	-7.617	70.736	44.737	1.00	20.78	C
ATOM	7772	C	PRO	C	149	-6.148	70.956	44.418	1.00	20.26	C
ATOM	7773	O	PRO	C	149	-5.768	71.984	43.827	1.00	19.99	O
ATOM	7774	CB	PRO	C	149	-8.395	70.227	43.526	1.00	22.13	C
ATOM	7775	CG	PRO	C	149	-8.779	71.549	42.829	1.00	23.86	C
ATOM	7776	CD	PRO	C	149	-9.233	72.379	43.987	1.00	21.99	C
ATOM	7777	N	ILE	C	150	-5.322	69.997	44.843	1.00	18.19	N
ATOM	7778	CA	ILE	C	150	-3.874	70.058	44.611	1.00	17.77	C
ATOM	7779	C	ILE	C	150	-3.512	69.025	43.562	1.00	16.77	C
ATOM	7780	O	ILE	C	150	-3.908	67.863	43.687	1.00	19.03	O
ATOM	7781	CB	ILE	C	150	-3.076	69.650	45.886	1.00	17.32	C
ATOM	7782	CG1	ILE	C	150	-3.402	70.616	47.023	1.00	19.42	C
ATOM	7783	CG2	ILE	C	150	-1.545	69.630	45.558	1.00	16.18	C
ATOM	7784	CD1	ILE	C	150	-3.195	70.010	48.443	1.00	17.96	C
ATOM	7785	N	VAL	C	151	-2.756	69.428	42.552	1.00	17.52	N
ATOM	7786	CA	VAL	C	151	-2.307	68.481	41.535	1.00	19.26	C
ATOM	7787	C	VAL	C	151	-0.786	68.332	41.784	1.00	20.15	C
ATOM	7788	O	VAL	C	151	-0.024	69.314	41.702	1.00	19.77	O
ATOM	7789	CB	VAL	C	151	-2.571	68.989	40.092	1.00	20.15	C
ATOM	7790	CG1	VAL	C	151	-1.835	68.095	39.067	1.00	20.58	C
ATOM	7791	CG2	VAL	C	151	-4.061	68.945	39.803	1.00	21.60	C
ATOM	7792	N	ALA	C	152	-0.344	67.112	42.093	1.00	16.83	N
ATOM	7793	CA	ALA	C	152	1.080	66.926	42.412	1.00	17.22	C
ATOM	7794	C	ALA	C	152	1.941	66.127	41.450	1.00	16.82	C
ATOM	7795	O	ALA	C	152	1.472	65.260	40.710	1.00	18.84	O
ATOM	7796	CB	ALA	C	152	1.220	66.336	43.845	1.00	16.23	C
ATOM	7797	N	ASP	C	153	3.224	66.445	41.478	1.00	16.33	N
ATOM	7798	CA	ASP	C	153	4.217	65.810	40.634	1.00	16.32	C
ATOM	7799	C	ASP	C	153	4.663	64.427	41.166	1.00	16.17	C
ATOM	7800	O	ASP	C	153	5.270	64.339	42.216	1.00	16.22	O
ATOM	7801	CB	ASP	C	153	5.404	66.732	40.602	1.00	17.33	C
ATOM	7802	CG	ASP	C	153	6.349	66.448	39.529	1.00	15.32	C
ATOM	7803	OD1	ASP	C	153	6.390	65.342	38.972	1.00	18.84	O
ATOM	7804	OD2	ASP	C	153	7.116	67.374	39.271	1.00	15.97	O
ATOM	7805	N	GLY	C	154	4.379	63.384	40.404	1.00	15.54	N
ATOM	7806	CA	GLY	C	154	4.748	62.023	40.760	1.00	16.67	C
ATOM	7807	C	GLY	C	154	6.042	61.656	40.029	1.00	15.52	C
ATOM	7808	O	GLY	C	154	6.578	60.558	40.188	1.00	15.78	O
ATOM	7809	N	GLU	C	155	6.549	62.600	39.236	1.00	16.47	N
ATOM	7810	CA	GLU	C	155	7.768	62.397	38.455	1.00	17.49	C
ATOM	7811	C	GLU	C	155	7.732	61.111	37.663	1.00	18.31	C
ATOM	7812	O	GLU	C	155	6.762	60.890	36.937	1.00	17.35	O
ATOM	7813	CB	GLU	C	155	9.003	62.474	39.356	1.00	18.83	C
ATOM	7814	CG	GLU	C	155	9.055	63.854	40.048	1.00	19.41	C
ATOM	7815	CD	GLU	C	155	10.437	64.258	40.567	1.00	24.24	C
ATOM	7816	OE1	GLU	C	155	11.366	63.435	40.527	1.00	23.00	O
ATOM	7817	OE2	GLU	C	155	10.567	65.420	41.026	1.00	24.20	O
ATOM	7818	N	ALA	C	156	8.786	60.290	37.779	1.00	17.55	N
ATOM	7819	CA	ALA	C	156	8.859	59.022	37.082	1.00	18.23	C
ATOM	7820	C	ALA	C	156	8.576	57.859	38.036	1.00	15.92	C
ATOM	7821	O	ALA	C	156	8.891	56.716	37.746	1.00	17.36	O
ATOM	7822	CB	ALA	C	156	10.263	58.857	36.409	1.00	16.06	C
ATOM	7823	N	GLY	C	157	8.028	58.163	39.193	1.00	15.19	N
ATOM	7824	CA	GLY	C	157	7.682	57.110	40.133	1.00	16.54	C
ATOM	7825	C	GLY	C	157	8.777	56.564	41.023	1.00	14.40	C
ATOM	7826	O	GLY	C	157	8.521	55.696	41.840	1.00	17.10	O
ATOM	7827	N	PHE	C	158	9.988	57.069	40.891	1.00	13.64	N
ATOM	7828	CA	PHE	C	158	11.070	56.634	41.759	1.00	13.64	C
ATOM	7829	C	PHE	C	158	11.348	55.144	41.760	1.00	14.05	C
ATOM	7830	O	PHE	C	158	11.748	54.574	42.755	1.00	15.93	O
ATOM	7831	CB	PHE	C	158	10.830	57.099	43.189	1.00	14.91	C
ATOM	7832	CG	PHE	C	158	10.881	58.587	43.329	1.00	15.11	C
ATOM	7833	CD1	PHE	C	158	9.739	59.348	43.139	1.00	15.65	C



ATOM	7834	CD2	PHE	C	158	12.064	59.224	43.602	1.00	13.22	C
ATOM	7835	CE1	PHE	C	158	9.785	60.725	43.224	1.00	15.81	C
ATOM	7836	CE2	PHE	C	158	12.125	60.602	43.688	1.00	11.13	C
ATOM	7837	CZ	PHE	C	158	11.000	61.353	43.499	1.00	14.91	C
ATOM	7838	N	GLY	C	159	11.135	54.519	40.637	1.00	14.37	N
ATOM	7839	CA	GLY	C	159	11.433	53.105	40.599	1.00	16.73	C
ATOM	7840	C	GLY	C	159	10.506	52.363	39.657	1.00	17.56	C
ATOM	7841	O	GLY	C	159	10.231	52.817	38.541	1.00	18.06	O
ATOM	7842	N	GLY	C	160	10.057	51.193	40.112	1.00	18.13	N
ATOM	7843	CA	GLY	C	160	9.161	50.356	39.322	1.00	18.26	C
ATOM	7844	C	GLY	C	160	7.700	50.614	39.676	1.00	19.70	C
ATOM	7845	O	GLY	C	160	7.375	51.574	40.383	1.00	17.39	O
ATOM	7846	N	ALA	C	161	6.821	49.737	39.191	1.00	18.55	N
ATOM	7847	CA	ALA	C	161	5.416	49.891	39.452	1.00	17.58	C
ATOM	7848	C	ALA	C	161	5.087	49.951	40.946	1.00	16.01	C
ATOM	7849	O	ALA	C	161	4.112	50.600	41.319	1.00	16.24	O
ATOM	7850	CB	ALA	C	161	4.669	48.755	38.775	1.00	17.43	C
ATOM	7851	N	LEU	C	162	5.873	49.291	41.808	1.00	12.93	N
ATOM	7852	CA	LEU	C	162	5.590	49.294	43.235	1.00	12.69	C
ATOM	7853	C	LEU	C	162	5.984	50.649	43.891	1.00	12.70	C
ATOM	7854	O	LEU	C	162	5.376	51.078	44.865	1.00	13.13	O
ATOM	7855	CB	LEU	C	162	6.334	48.147	43.943	1.00	14.69	C
ATOM	7856	CG	LEU	C	162	5.990	46.721	43.536	1.00	15.80	C
ATOM	7857	CD1	LEU	C	162	6.640	45.753	44.514	1.00	15.57	C
ATOM	7858	CD2	LEU	C	162	4.489	46.555	43.641	1.00	16.30	C
ATOM	7859	N	ASN	C	163	6.986	51.320	43.328	1.00	13.38	N
ATOM	7860	CA	ASN	C	163	7.390	52.627	43.861	1.00	11.09	C
ATOM	7861	C	ASN	C	163	6.299	53.615	43.464	1.00	11.21	C
ATOM	7862	O	ASN	C	163	5.933	54.513	44.242	1.00	10.70	O
ATOM	7863	CB	ASN	C	163	8.754	53.044	43.290	1.00	12.81	C
ATOM	7864	CG	ASN	C	163	9.867	52.158	43.814	1.00	13.59	C
ATOM	7865	OD1	ASN	C	163	10.417	52.398	44.904	1.00	15.71	O
ATOM	7866	ND2	ASN	C	163	10.171	51.108	43.063	1.00	6.72	N
ATOM	7867	N	VAL	C	164	5.760	53.413	42.268	1.00	10.92	N
ATOM	7868	CA	VAL	C	164	4.696	54.260	41.730	1.00	12.30	C
ATOM	7869	C	VAL	C	164	3.506	54.100	42.657	1.00	12.04	C
ATOM	7870	O	VAL	C	164	2.920	55.064	43.121	1.00	12.73	O
ATOM	7871	CB	VAL	C	164	4.263	53.783	40.326	1.00	14.09	C
ATOM	7872	CG1	VAL	C	164	2.866	54.405	39.939	1.00	10.39	C
ATOM	7873	CG2	VAL	C	164	5.329	54.186	39.274	1.00	12.85	C
ATOM	7874	N	TYR	C	165	3.144	52.851	42.903	1.00	12.68	N
ATOM	7875	CA	TYR	C	165	2.003	52.566	43.754	1.00	14.25	C
ATOM	7876	C	TYR	C	165	2.107	53.240	45.144	1.00	14.73	C
ATOM	7877	O	TYR	C	165	1.161	53.894	45.623	1.00	15.77	O
ATOM	7878	CB	TYR	C	165	1.870	51.047	43.900	1.00	12.61	C
ATOM	7879	CG	TYR	C	165	0.678	50.669	44.739	1.00	12.96	C
ATOM	7880	CD1	TYR	C	165	0.757	50.688	46.117	1.00	13.66	C
ATOM	7881	CD2	TYR	C	165	-0.544	50.303	44.140	1.00	15.37	C
ATOM	7882	CE1	TYR	C	165	-0.345	50.369	46.910	1.00	16.27	C
ATOM	7883	CE2	TYR	C	165	-1.656	49.969	44.919	1.00	15.96	C
ATOM	7884	CZ	TYR	C	165	-1.563	50.015	46.295	1.00	17.62	C
ATOM	7885	OH	TYR	C	165	-2.687	49.841	47.090	1.00	16.15	O
ATOM	7886	N	GLU	C	166	3.264	53.119	45.772	1.00	13.50	N
ATOM	7887	CA	GLU	C	166	3.442	53.704	47.091	1.00	13.74	C
ATOM	7888	C	GLU	C	166	3.431	55.216	47.031	1.00	10.86	C
ATOM	7889	O	GLU	C	166	2.934	55.854	47.949	1.00	12.20	O
ATOM	7890	CB	GLU	C	166	4.759	53.219	47.708	1.00	12.81	C
ATOM	7891	CG	GLU	C	166	4.667	51.775	48.251	1.00	12.46	C
ATOM	7892	CD	GLU	C	166	3.551	51.575	49.260	1.00	14.97	C
ATOM	7893	OE1	GLU	C	166	3.530	52.343	50.248	1.00	13.04	O
ATOM	7894	OE2	GLU	C	166	2.698	50.656	49.072	1.00	15.01	O
ATOM	7895	N	LEU	C	167	4.002	55.792	45.980	1.00	11.71	N
ATOM	7896	CA	LEU	C	167	4.011	57.261	45.909	1.00	11.42	C
ATOM	7897	C	LEU	C	167	2.575	57.748	45.766	1.00	10.74	C
ATOM	7898	O	LEU	C	167	2.153	58.677	46.494	1.00	9.86	O
ATOM	7899	CB	LEU	C	167	4.878	57.750	44.742	1.00	9.92	C
ATOM	7900	CG	LEU	C	167	4.864	59.265	44.444	1.00	10.91	C
ATOM	7901	CD1	LEU	C	167	5.169	60.066	45.734	1.00	10.93	C
ATOM	7902	CD2	LEU	C	167	5.850	59.595	43.320	1.00	12.98	C
ATOM	7903	N	GLN	C	168	1.809	57.101	44.882	1.00	12.28	N
ATOM	7904	CA	GLN	C	168	0.402	57.482	44.687	1.00	12.12	C
ATOM	7905	C	GLN	C	168	-0.378	57.319	45.993	1.00	12.18	C
ATOM	7906	O	GLN	C	168	-1.174	58.204	46.357	1.00	14.03	O
ATOM	7907	CB	GLN	C	168	-0.257	56.628	43.601	1.00	13.46	C
ATOM	7908	CG	GLN	C	168	-1.785	56.932	43.426	1.00	12.66	C
ATOM	7909	CD	GLN	C	168	-2.092	58.193	42.606	1.00	18.80	C
ATOM	7910	OE1	GLN	C	168	-1.535	59.266	42.874	1.00	18.19	O
ATOM	7911	NE2	GLN	C	168	-3.004	58.073	41.603	1.00	15.53	N
ATOM	7912	N	LYS	C	169	-0.186	56.193	46.684	1.00	12.35	N
ATOM	7913	CA	LYS	C	169	-0.845	55.951	47.960	1.00	12.93	C



ATOM	7914	C	LYS	C	169	-0.518	57.057	48.973	1.00	14.52	C
ATOM	7915	O	LYS	C	169	-1.419	57.582	49.682	1.00	12.37	O
ATOM	7916	CB	LYS	C	169	-0.445	54.571	48.526	1.00	12.36	C
ATOM	7917	CG	LYS	C	169	-1.009	54.259	49.934	1.00	12.37	C
ATOM	7918	CD	LYS	C	169	-0.603	52.816	50.389	1.00	11.40	C
ATOM	7919	CE	LYS	C	169	-0.797	52.659	51.885	1.00	14.83	C
ATOM	7920	NZ	LYS	C	169	-0.702	51.214	52.254	1.00	17.94	N
ATOM	7921	N	ALA	C	170	0.767	57.416	49.056	1.00	11.63	N
ATOM	7922	CA	ALA	C	170	1.193	58.475	49.968	1.00	12.22	C
ATOM	7923	C	ALA	C	170	0.620	59.829	49.560	1.00	12.05	C
ATOM	7924	O	ALA	C	170	0.262	60.634	50.426	1.00	15.64	O
ATOM	7925	CB	ALA	C	170	2.788	58.534	50.032	1.00	10.48	C
ATOM	7926	N	LEU	C	171	0.525	60.108	48.262	1.00	12.77	N
ATOM	7927	CA	LEU	C	171	-0.027	61.395	47.845	1.00	13.40	C
ATOM	7928	C	LEU	C	171	-1.520	61.479	48.262	1.00	13.41	C
ATOM	7929	O	LEU	C	171	-1.990	62.514	48.750	1.00	13.45	O
ATOM	7930	CB	LEU	C	171	0.115	61.561	46.336	1.00	13.89	C
ATOM	7931	CG	LEU	C	171	1.529	61.803	45.767	1.00	12.96	C
ATOM	7932	CD1	LEU	C	171	1.472	61.658	44.264	1.00	12.70	C
ATOM	7933	CD2	LEU	C	171	2.029	63.231	46.139	1.00	16.56	C
ATOM	7934	N	ILE	C	172	-2.238	60.374	48.131	1.00	14.65	N
ATOM	7935	CA	ILE	C	172	-3.651	60.332	48.528	1.00	15.09	C
ATOM	7936	C	ILE	C	172	-3.810	60.485	50.045	1.00	16.19	C
ATOM	7937	O	ILE	C	172	-4.656	61.254	50.562	1.00	14.87	O
ATOM	7938	CB	ILE	C	172	-4.257	59.015	48.063	1.00	15.31	C
ATOM	7939	CG1	ILE	C	172	-4.473	59.074	46.562	1.00	17.54	C
ATOM	7940	CG2	ILE	C	172	-5.510	58.681	48.855	1.00	13.50	C
ATOM	7941	CD1	ILE	C	172	-4.709	57.692	45.939	1.00	17.17	C
ATOM	7942	N	ALA	C	173	-2.992	59.767	50.794	1.00	13.56	N
ATOM	7943	CA	ALA	C	173	-3.070	59.885	52.233	1.00	14.00	C
ATOM	7944	C	ALA	C	173	-2.914	61.357	52.661	1.00	14.89	C
ATOM	7945	O	ALA	C	173	-3.524	61.796	53.642	1.00	16.26	O
ATOM	7946	CB	ALA	C	173	-1.970	59.014	52.885	1.00	13.97	C
ATOM	7947	N	ALA	C	174	-2.089	62.107	51.927	1.00	12.81	N
ATOM	7948	CA	ALA	C	174	-1.790	63.490	52.238	1.00	14.42	C
ATOM	7949	C	ALA	C	174	-2.898	64.407	51.742	1.00	15.36	C
ATOM	7950	O	ALA	C	174	-2.883	65.618	52.033	1.00	15.25	O
ATOM	7951	CB	ALA	C	174	-0.482	63.898	51.604	1.00	13.58	C
ATOM	7952	N	GLY	C	175	-3.824	63.826	50.972	1.00	15.83	N
ATOM	7953	CA	GLY	C	175	-4.952	64.596	50.463	1.00	16.70	C
ATOM	7954	C	GLY	C	175	-4.837	65.167	49.058	1.00	17.18	C
ATOM	7955	O	GLY	C	175	-5.461	66.195	48.767	1.00	18.01	O
ATOM	7956	N	VAL	C	176	-4.073	64.526	48.167	1.00	16.75	N
ATOM	7957	CA	VAL	C	176	-3.908	65.060	46.800	1.00	15.29	C
ATOM	7958	C	VAL	C	176	-5.206	64.873	45.978	1.00	16.44	C
ATOM	7959	O	VAL	C	176	-5.991	63.981	46.264	1.00	16.76	O
ATOM	7960	CB	VAL	C	176	-2.707	64.362	46.041	1.00	16.70	C
ATOM	7961	CG1	VAL	C	176	-3.133	63.055	45.389	1.00	15.63	C
ATOM	7962	CG2	VAL	C	176	-2.174	65.266	44.997	1.00	15.67	C
ATOM	7963	N	ALA	C	177	-5.386	65.699	44.958	1.00	17.34	N
ATOM	7964	CA	ALA	C	177	-6.580	65.612	44.100	1.00	18.49	C
ATOM	7965	C	ALA	C	177	-6.240	64.945	42.773	1.00	18.41	C
ATOM	7966	O	ALA	C	177	-7.051	64.175	42.200	1.00	19.71	O
ATOM	7967	CB	ALA	C	177	-7.134	67.025	43.863	1.00	15.06	C
ATOM	7968	N	GLY	C	178	-5.038	65.235	42.294	1.00	17.05	N
ATOM	7969	CA	GLY	C	178	-4.548	64.682	41.044	1.00	17.57	C
ATOM	7970	C	GLY	C	178	-3.026	64.511	41.063	1.00	17.22	C
ATOM	7971	O	GLY	C	178	-2.344	65.209	41.818	1.00	15.09	O
ATOM	7972	N	SER	C	179	-2.517	63.576	40.263	1.00	15.89	N
ATOM	7973	CA	SER	C	179	-1.083	63.317	40.169	1.00	15.53	C
ATOM	7974	C	SER	C	179	-0.693	62.988	38.728	1.00	15.73	C
ATOM	7975	O	SER	C	179	-1.487	62.395	37.954	1.00	15.48	O
ATOM	7976	CB	SER	C	179	-0.687	62.195	41.145	1.00	14.16	C
ATOM	7977	OG	SER	C	179	-1.395	60.971	40.909	1.00	15.23	O
ATOM	7978	N	HIS	C	180	0.519	63.403	38.362	1.00	15.62	N
ATOM	7979	CA	HIS	C	180	1.037	63.197	37.023	1.00	16.35	C
ATOM	7980	C	HIS	C	180	2.300	62.346	37.026	1.00	14.97	C
ATOM	7981	O	HIS	C	180	3.100	62.373	37.964	1.00	13.37	O
ATOM	7982	CB	HIS	C	180	1.254	64.547	36.312	1.00	16.07	C
ATOM	7983	CG	HIS	C	180	2.427	65.340	36.801	1.00	16.69	C
ATOM	7984	ND1	HIS	C	180	2.286	66.592	37.372	1.00	18.95	N
ATOM	7985	CD2	HIS	C	180	3.755	65.185	36.570	1.00	15.36	C
ATOM	7986	CE1	HIS	C	180	3.469	67.178	37.452	1.00	17.61	C
ATOM	7987	NE2	HIS	C	180	4.376	66.348	36.968	1.00	18.11	N
ATOM	7988	N	TRP	C	181	2.445	61.595	35.948	1.00	15.03	N
ATOM	7989	CA	TRP	C	181	3.480	60.573	35.813	1.00	14.27	C
ATOM	7990	C	TRP	C	181	4.081	60.609	34.430	1.00	16.22	C
ATOM	7991	O	TRP	C	181	3.363	60.567	33.429	1.00	19.19	O
ATOM	7992	CB	TRP	C	181	2.794	59.197	36.075	1.00	13.01	C
ATOM	7993	CG	TRP	C	181	1.963	59.177	37.357	1.00	13.87	C

6-108/7



ATOM	7994	CD1	TRP	C	181	0.660	59.607	37.529	1.00	12.14	C
ATOM	7995	CD2	TRP	C	181	2.440	58.820	38.659	1.00	11.52	C
ATOM	7996	NE1	TRP	C	181	0.325	59.548	38.856	1.00	12.42	N
ATOM	7997	CE2	TRP	C	181	1.400	59.081	39.576	1.00	13.00	C
ATOM	7998	CE3	TRP	C	181	3.665	58.313	39.138	1.00	11.92	C
ATOM	7999	CZ2	TRP	C	181	1.542	58.873	40.962	1.00	12.40	C
ATOM	8000	CZ3	TRP	C	181	3.819	58.116	40.534	1.00	10.37	C
ATOM	8001	CH2	TRP	C	181	2.762	58.397	41.428	1.00	13.30	C
ATOM	8002	N	GLU	C	182	5.404	60.624	34.347	1.00	17.25	N
ATOM	8003	CA	GLU	C	182	6.048	60.750	33.047	1.00	17.12	C
ATOM	8004	C	GLU	C	182	6.754	59.501	32.616	1.00	16.33	C
ATOM	8005	O	GLU	C	182	7.149	58.660	33.485	1.00	14.49	O
ATOM	8006	CB	GLU	C	182	7.027	61.921	33.091	1.00	18.97	C
ATOM	8007	CG	GLU	C	182	8.198	61.651	34.053	1.00	19.19	C
ATOM	8008	CD	GLU	C	182	8.633	62.900	34.788	1.00	23.20	C
ATOM	8009	OE1	GLU	C	182	7.817	63.851	34.937	1.00	23.72	O
ATOM	8010	OE2	GLU	C	182	9.786	62.922	35.252	1.00	24.72	O
ATOM	8011	N	ASP	C	183	6.899	59.371	31.287	1.00	14.91	N
ATOM	8012	CA	ASP	C	183	7.488	58.192	30.683	1.00	15.71	C
ATOM	8013	C	ASP	C	183	9.016	58.175	30.575	1.00	16.67	C
ATOM	8014	O	ASP	C	183	9.581	57.772	29.562	1.00	17.69	O
ATOM	8015	CB	ASP	C	183	6.820	57.881	29.314	1.00	15.19	C
ATOM	8016	CG	ASP	C	183	6.904	59.037	28.301	1.00	18.59	C
ATOM	8017	OD1	ASP	C	183	7.575	60.055	28.597	1.00	15.14	O
ATOM	8018	OD2	ASP	C	183	6.277	58.924	27.208	1.00	18.24	O
ATOM	8019	N	GLN	C	184	9.669	58.590	31.649	1.00	17.67	N
ATOM	8020	CA	GLN	C	184	11.135	58.575	31.701	1.00	18.98	C
ATOM	8021	C	GLN	C	184	11.635	57.485	32.652	1.00	18.36	C
ATOM	8022	O	GLN	C	184	10.917	57.027	33.556	1.00	18.10	O
ATOM	8023	CB	GLN	C	184	11.693	59.902	32.232	1.00	19.26	C
ATOM	8024	CG	GLN	C	184	11.367	61.153	31.425	1.00	20.59	C
ATOM	8025	CD	GLN	C	184	12.033	62.379	32.033	1.00	20.72	C
ATOM	8026	OE1	GLN	C	184	13.263	62.398	32.237	1.00	20.21	O
ATOM	8027	NE2	GLN	C	184	11.237	63.414	32.318	1.00	20.15	N
ATOM	8028	N	LEU	C	185	12.899	57.098	32.471	1.00	19.19	N
ATOM	8029	CA	LEU	C	185	13.536	56.118	33.326	1.00	18.32	C
ATOM	8030	C	LEU	C	185	13.818	56.875	34.628	1.00	20.30	C
ATOM	8031	O	LEU	C	185	14.576	57.841	34.609	1.00	19.59	O
ATOM	8032	CB	LEU	C	185	14.859	55.676	32.690	1.00	19.43	C
ATOM	8033	CG	LEU	C	185	15.764	54.814	33.551	1.00	20.04	C
ATOM	8034	CD1	LEU	C	185	15.029	53.551	34.011	1.00	18.55	C
ATOM	8035	CD2	LEU	C	185	16.976	54.468	32.744	1.00	17.02	C
ATOM	8036	N	ALA	C	186	13.251	56.411	35.752	1.00	19.18	N
ATOM	8037	CA	ALA	C	186	13.415	57.112	37.038	1.00	19.19	C
ATOM	8038	C	ALA	C	186	14.888	57.391	37.419	1.00	20.35	C
ATOM	8039	O	ALA	C	186	15.248	58.496	37.848	1.00	21.01	O
ATOM	8040	CB	ALA	C	186	12.700	56.313	38.158	1.00	16.14	C
ATOM	8041	N	SER	C	187	15.753	56.405	37.222	1.00	19.73	N
ATOM	8042	CA	SER	C	187	17.155	56.600	37.599	1.00	21.46	C
ATOM	8043	C	SER	C	187	17.861	57.687	36.759	1.00	21.23	C
ATOM	8044	O	SER	C	187	18.930	58.140	37.108	1.00	20.36	O
ATOM	8045	CB	SER	C	187	17.908	55.273	37.481	1.00	19.29	C
ATOM	8046	OG	SER	C	187	17.953	54.840	36.130	1.00	23.26	O
ATOM	8047	N	GLU	C	188	17.278	58.072	35.641	1.00	19.73	N
ATOM	8048	CA	GLU	C	188	17.879	59.121	34.818	1.00	20.99	C
ATOM	8049	C	GLU	C	188	16.913	60.284	34.608	1.00	20.25	C
ATOM	8050	O	GLU	C	188	17.090	61.087	33.698	1.00	18.43	O
ATOM	8051	CB	GLU	C	188	18.298	58.582	33.449	1.00	22.32	C
ATOM	8052	CG	GLU	C	188	19.425	57.591	33.440	1.00	23.80	C
ATOM	8053	CD	GLU	C	188	20.702	58.089	34.124	1.00	25.08	C
ATOM	8054	OE1	GLU	C	188	21.053	59.302	34.036	1.00	27.23	O
ATOM	8055	OE2	GLU	C	188	21.372	57.236	34.728	1.00	27.26	O
ATOM	8056	N	LYS	C	189	15.887	60.367	35.441	1.00	19.10	N
ATOM	8057	CA	LYS	C	189	14.882	61.413	35.320	1.00	18.93	C
ATOM	8058	C	LYS	C	189	15.409	62.839	35.183	1.00	21.51	C
ATOM	8059	O	LYS	C	189	16.412	63.190	35.808	1.00	21.42	O
ATOM	8060	CB	LYS	C	189	13.933	61.333	36.518	1.00	16.12	C
ATOM	8061	CG	LYS	C	189	12.805	62.365	36.525	1.00	20.24	C
ATOM	8062	CD	LYS	C	189	13.259	63.749	36.985	1.00	19.12	C
ATOM	8063	CE	LYS	C	189	12.086	64.626	37.365	1.00	21.24	C
ATOM	8064	NZ	LYS	C	189	11.199	64.958	36.206	1.00	24.40	N
ATOM	8065	N	LYS	C	190	14.677	63.660	34.412	1.00	21.44	N
ATOM	8066	CA	LYS	C	190	15.028	65.073	34.138	1.00	20.53	C
ATOM	8067	C	LYS	C	190	13.814	65.978	34.064	1.00	22.49	C
ATOM	8068	O	LYS	C	190	12.704	65.546	33.751	1.00	21.59	O
ATOM	8069	CB	LYS	C	190	15.705	65.227	32.771	1.00	21.16	C
ATOM	8070	CG	LYS	C	190	17.005	64.476	32.537	1.00	21.35	C
ATOM	8071	CD	LYS	C	190	18.119	64.944	33.419	1.00	23.83	C
ATOM	8072	CE	LYS	C	190	19.451	64.291	32.993	1.00	23.01	C
ATOM	8073	NZ	LYS	C	190	19.448	62.793	33.119	1.00	23.73	N



ATOM	8074	N	CYS	C	191	14.036	67.252	34.356	1.00	20.56	N
ATOM	8075	CA	CYS	C	191	13.007	68.260	34.179	1.00	22.71	C
ATOM	8076	C	CYS	C	191	12.757	68.157	32.656	1.00	21.65	C
ATOM	8077	O	CYS	C	191	13.686	67.862	31.897	1.00	19.52	O
ATOM	8078	CB	CYS	C	191	13.618	69.607	34.545	1.00	23.57	C
ATOM	8079	SG	CYS	C	191	13.010	71.044	33.712	1.00	25.78	S
ATOM	8080	N	GLY	C	192	11.523	68.398	32.216	1.00	21.52	N
ATOM	8081	CA	GLY	C	192	11.204	68.273	30.795	1.00	23.03	C
ATOM	8082	C	GLY	C	192	12.032	69.153	29.874	1.00	24.05	C
ATOM	8083	O	GLY	C	192	12.137	68.898	28.657	1.00	23.53	O
ATOM	8084	N	HIS	C	193	12.638	70.178	30.459	1.00	23.37	N
ATOM	8085	CA	HIS	C	193	13.427	71.119	29.680	1.00	25.78	C
ATOM	8086	C	HIS	C	193	14.948	71.042	29.876	1.00	26.70	C
ATOM	8087	O	HIS	C	193	15.696	71.971	29.536	1.00	27.24	O
ATOM	8088	CB	HIS	C	193	12.869	72.495	29.947	1.00	25.04	C
ATOM	8089	CG	HIS	C	193	11.413	72.590	29.615	1.00	26.10	C
ATOM	8090	ND1	HIS	C	193	10.426	72.721	30.572	1.00	26.27	N
ATOM	8091	CD2	HIS	C	193	10.771	72.502	28.427	1.00	27.87	C
ATOM	8092	CE1	HIS	C	193	9.242	72.713	29.988	1.00	27.17	C
ATOM	8093	NE2	HIS	C	193	9.421	72.583	28.684	1.00	26.99	N
ATOM	8094	N	LEU	C	194	15.409	69.920	30.420	1.00	25.55	N
ATOM	8095	CA	LEU	C	194	16.847	69.684	30.552	1.00	24.61	C
ATOM	8096	C	LEU	C	194	17.142	68.602	29.521	1.00	24.77	C
ATOM	8097	O	LEU	C	194	16.207	67.963	29.015	1.00	23.51	O
ATOM	8098	CB	LEU	C	194	17.225	69.190	31.950	1.00	24.33	C
ATOM	8099	CG	LEU	C	194	17.195	70.220	33.088	1.00	25.54	C
ATOM	8100	CD1	LEU	C	194	17.374	69.505	34.433	1.00	23.21	C
ATOM	8101	CD2	LEU	C	194	18.305	71.266	32.871	1.00	23.00	C
ATOM	8102	N	GLY	C	195	18.418	68.416	29.175	1.00	23.60	N
ATOM	8103	CA	GLY	C	195	18.769	67.384	28.225	1.00	23.72	C
ATOM	8104	C	GLY	C	195	19.049	66.099	28.993	1.00	24.08	C
ATOM	8105	O	GLY	C	195	18.874	66.066	30.211	1.00	21.95	O
ATOM	8106	N	GLY	C	196	19.472	65.053	28.291	1.00	23.09	N
ATOM	8107	CA	GLY	C	196	19.803	63.804	28.953	1.00	23.24	C
ATOM	8108	C	GLY	C	196	18.621	62.937	29.374	1.00	23.41	C
ATOM	8109	O	GLY	C	196	18.768	62.118	30.298	1.00	23.05	O
ATOM	8110	N	LYS	C	197	17.471	63.105	28.702	1.00	21.37	N
ATOM	8111	CA	LYS	C	197	16.257	62.337	29.025	1.00	19.21	C
ATOM	8112	C	LYS	C	197	16.253	60.974	28.356	1.00	19.66	C
ATOM	8113	O	LYS	C	197	16.629	60.830	27.170	1.00	19.72	O
ATOM	8114	CB	LYS	C	197	14.991	63.124	28.637	1.00	19.83	C
ATOM	8115	CG	LYS	C	197	14.963	64.489	29.293	1.00	19.39	C
ATOM	8116	CD	LYS	C	197	13.605	65.214	29.244	1.00	20.05	C
ATOM	8117	CE	LYS	C	197	13.134	65.448	27.804	1.00	19.72	C
ATOM	8118	NZ	LYS	C	197	11.852	66.234	27.875	1.00	22.84	N
ATOM	8119	N	VAL	C	198	15.851	59.967	29.139	1.00	17.73	N
ATOM	8120	CA	VAL	C	198	15.780	58.595	28.673	1.00	18.94	C
ATOM	8121	C	VAL	C	198	14.343	58.105	28.884	1.00	16.19	C
ATOM	8122	O	VAL	C	198	13.804	58.132	30.000	1.00	15.93	O
ATOM	8123	CB	VAL	C	198	16.732	57.698	29.459	1.00	19.25	C
ATOM	8124	CG1	VAL	C	198	16.719	56.305	28.884	1.00	22.27	C
ATOM	8125	CG2	VAL	C	198	18.148	58.277	29.382	1.00	21.33	C
ATOM	8126	N	LEU	C	199	13.714	57.707	27.794	1.00	16.68	N
ATOM	8127	CA	LEU	C	199	12.335	57.230	27.881	1.00	15.69	C
ATOM	8128	C	LEU	C	199	12.304	55.748	28.252	1.00	15.36	C
ATOM	8129	O	LEU	C	199	13.304	55.014	28.130	1.00	14.10	O
ATOM	8130	CB	LEU	C	199	11.621	57.399	26.524	1.00	16.52	C
ATOM	8131	CG	LEU	C	199	11.490	58.764	25.859	1.00	12.52	C
ATOM	8132	CD1	LEU	C	199	10.877	58.568	24.468	1.00	17.41	C
ATOM	8133	CD2	LEU	C	199	10.625	59.700	26.683	1.00	15.63	C
ATOM	8134	N	ILE	C	200	11.140	55.295	28.713	1.00	15.29	N
ATOM	8135	CA	ILE	C	200	10.956	53.860	28.974	1.00	14.10	C
ATOM	8136	C	ILE	C	200	9.899	53.425	27.926	1.00	15.11	C
ATOM	8137	O	ILE	C	200	9.200	54.273	27.325	1.00	11.53	O
ATOM	8138	CB	ILE	C	200	10.515	53.591	30.440	1.00	14.49	C
ATOM	8139	CG1	ILE	C	200	9.565	54.653	30.958	1.00	18.28	C
ATOM	8140	CG2	ILE	C	200	11.737	53.708	31.358	1.00	17.33	C
ATOM	8141	CD1	ILE	C	200	8.114	54.525	30.540	1.00	18.88	C
ATOM	8142	N	PRO	C	201	9.800	52.117	27.658	1.00	14.86	N
ATOM	8143	CA	PRO	C	201	8.855	51.575	26.678	1.00	16.28	C
ATOM	8144	C	PRO	C	201	7.428	52.027	26.916	1.00	16.19	C
ATOM	8145	O	PRO	C	201	7.010	52.221	28.055	1.00	18.02	O
ATOM	8146	CB	PRO	C	201	9.026	50.076	26.829	1.00	14.55	C
ATOM	8147	CG	PRO	C	201	10.522	49.964	27.276	1.00	16.01	C
ATOM	8148	CD	PRO	C	201	10.554	51.032	28.321	1.00	13.84	C
ATOM	8149	N	THR	C	202	6.674	52.181	25.836	1.00	15.90	N
ATOM	8150	CA	THR	C	202	5.298	52.650	25.952	1.00	15.65	C
ATOM	8151	C	THR	C	202	4.501	51.794	26.939	1.00	16.00	C
ATOM	8152	O	THR	C	202	3.746	52.317	27.763	1.00	14.89	O
ATOM	8153	CB	THR	C	202	4.603	52.601	24.570	1.00	17.26	C



ATOM	8154	OG1	THR	C	202	5.149	53.633	23.749	1.00	17.19	O
ATOM	8155	CG2	THR	C	202	3.084	52.824	24.724	1.00	14.00	C
ATOM	8156	N	GLN	C	203	4.689	50.482	26.864	1.00	13.74	N
ATOM	8157	CA	GLN	C	203	3.985	49.561	27.760	1.00	14.85	C
ATOM	8158	C	GLN	C	203	4.399	49.787	29.223	1.00	15.87	C
ATOM	8159	O	GLN	C	203	3.597	49.631	30.151	1.00	14.88	O
ATOM	8160	CB	GLN	C	203	4.274	48.091	27.382	1.00	14.75	C
ATOM	8161	CG	GLN	C	203	3.320	47.081	28.145	1.00	18.76	C
ATOM	8162	CD	GLN	C	203	1.831	47.452	27.997	1.00	20.25	C
ATOM	8163	OE1	GLN	C	203	1.378	47.833	26.919	1.00	21.49	O
ATOM	8164	NE2	GLN	C	203	1.065	47.328	29.088	1.00	20.00	N
ATOM	8165	N	GLN	C	204	5.656	50.158	29.444	1.00	14.60	N
ATOM	8166	CA	GLN	C	204	6.051	50.352	30.826	1.00	14.35	C
ATOM	8167	C	GLN	C	204	5.314	51.557	31.378	1.00	14.63	C
ATOM	8168	O	GLN	C	204	4.913	51.557	32.548	1.00	15.35	O
ATOM	8169	CB	GLN	C	204	7.559	50.574	30.955	1.00	13.98	C
ATOM	8170	CG	GLN	C	204	8.033	50.593	32.418	1.00	16.35	C
ATOM	8171	CD	GLN	C	204	9.573	50.559	32.515	1.00	16.86	C
ATOM	8172	OE1	GLN	C	204	10.236	49.959	31.666	1.00	17.41	O
ATOM	8173	NE2	GLN	C	204	10.123	51.166	33.566	1.00	19.09	N
ATOM	8174	N	HIS	C	205	5.102	52.581	30.558	1.00	15.34	N
ATOM	8175	CA	HIS	C	205	4.403	53.743	31.118	1.00	14.35	C
ATOM	8176	C	HIS	C	205	2.916	53.428	31.356	1.00	16.26	C
ATOM	8177	O	HIS	C	205	2.298	53.918	32.301	1.00	15.78	O
ATOM	8178	CB	HIS	C	205	4.521	55.002	30.268	1.00	15.73	C
ATOM	8179	CG	HIS	C	205	4.301	56.219	31.092	1.00	16.86	C
ATOM	8180	ND1	HIS	C	205	3.431	57.232	30.756	1.00	21.62	N
ATOM	8181	CD2	HIS	C	205	4.741	56.502	32.342	1.00	16.41	C
ATOM	8182	CE1	HIS	C	205	3.341	58.086	31.764	1.00	15.82	C
ATOM	8183	NE2	HIS	C	205	4.126	57.664	32.737	1.00	20.62	N
ATOM	8184	N	ILE	C	206	2.356	52.575	30.521	1.00	15.49	N
ATOM	8185	CA	ILE	C	206	0.982	52.134	30.736	1.00	15.68	C
ATOM	8186	C	ILE	C	206	0.945	51.386	32.097	1.00	15.52	C
ATOM	8187	O	ILE	C	206	-0.014	51.494	32.873	1.00	14.60	O
ATOM	8188	CB	ILE	C	206	0.541	51.216	29.573	1.00	17.57	C
ATOM	8189	CG1	ILE	C	206	0.339	52.043	28.297	1.00	16.66	C
ATOM	8190	CG2	ILE	C	206	-0.760	50.502	29.945	1.00	16.99	C
ATOM	8191	CD1	ILE	C	206	0.043	51.171	27.055	1.00	19.25	C
ATOM	8192	N	ARG	C	207	1.995	50.631	32.405	1.00	16.06	N
ATOM	8193	CA	ARG	C	207	2.051	49.935	33.692	1.00	16.17	C
ATOM	8194	C	ARG	C	207	2.047	50.957	34.818	1.00	14.87	C
ATOM	8195	O	ARG	C	207	1.424	50.767	35.867	1.00	14.67	O
ATOM	8196	CB	ARG	C	207	3.318	49.048	33.791	1.00	18.80	C
ATOM	8197	CG	ARG	C	207	3.204	47.731	33.028	1.00	23.62	C
ATOM	8198	CD	ARG	C	207	4.210	46.671	33.542	1.00	29.87	C
ATOM	8199	NE	ARG	C	207	5.588	46.960	33.147	1.00	31.99	N
ATOM	8200	CZ	ARG	C	207	6.071	46.773	31.917	1.00	34.53	C
ATOM	8201	NH1	ARG	C	207	5.284	46.288	30.955	1.00	35.48	N
ATOM	8202	NH2	ARG	C	207	7.341	47.067	31.649	1.00	33.77	N
ATOM	8203	N	THR	C	208	2.772	52.053	34.630	1.00	14.72	N
ATOM	8204	CA	THR	C	208	2.815	53.084	35.650	1.00	13.97	C
ATOM	8205	C	THR	C	208	1.452	53.734	35.836	1.00	13.37	C
ATOM	8206	O	THR	C	208	0.994	53.938	36.936	1.00	13.13	O
ATOM	8207	CB	THR	C	208	3.844	54.151	35.255	1.00	13.18	C
ATOM	8208	OG1	THR	C	208	5.146	53.587	35.441	1.00	12.38	O
ATOM	8209	CG2	THR	C	208	3.684	55.424	36.073	1.00	12.26	C
ATOM	8210	N	LEU	C	209	0.785	54.006	34.741	1.00	14.47	N
ATOM	8211	CA	LEU	C	209	-0.503	54.640	34.857	1.00	15.68	C
ATOM	8212	C	LEU	C	209	-1.520	53.680	35.487	1.00	15.77	C
ATOM	8213	O	LEU	C	209	-2.412	54.109	36.227	1.00	15.08	O
ATOM	8214	CB	LEU	C	209	-0.950	55.149	33.478	1.00	15.66	C
ATOM	8215	CG	LEU	C	209	-0.130	56.249	32.792	1.00	13.33	C
ATOM	8216	CD1	LEU	C	209	-0.663	56.495	31.396	1.00	16.13	C
ATOM	8217	CD2	LEU	C	209	-0.229	57.536	33.577	1.00	12.25	C
ATOM	8218	N	THR	C	210	-1.380	52.395	35.195	1.00	16.08	N
ATOM	8219	CA	THR	C	210	-2.259	51.366	35.756	1.00	16.04	C
ATOM	8220	C	THR	C	210	-2.020	51.248	37.282	1.00	16.46	C
ATOM	8221	O	THR	C	210	-2.978	51.150	38.077	1.00	15.49	O
ATOM	8222	CB	THR	C	210	-1.971	50.009	35.079	1.00	15.88	C
ATOM	8223	OG1	THR	C	210	-2.416	50.072	33.728	1.00	16.23	O
ATOM	8224	CG2	THR	C	210	-2.662	48.836	35.800	1.00	14.96	C
ATOM	8225	N	SER	C	211	-0.747	51.246	37.684	1.00	13.55	N
ATOM	8226	CA	SER	C	211	-0.407	51.162	39.096	1.00	13.16	C
ATOM	8227	C	SER	C	211	-0.982	52.380	39.847	1.00	12.86	C
ATOM	8228	O	SER	C	211	-1.468	52.242	40.974	1.00	15.35	O
ATOM	8229	CB	SER	C	211	1.127	51.106	39.273	1.00	12.71	C
ATOM	8230	OG	SER	C	211	1.486	51.007	40.660	1.00	13.54	O
ATOM	8231	N	ALA	C	212	-0.907	53.552	39.239	1.00	12.79	N
ATOM	8232	CA	ALA	C	212	-1.395	54.773	39.867	1.00	15.15	C
ATOM	8233	C	ALA	C	212	-2.916	54.718	40.035	1.00	17.58	C



ATOM	8234	O	ALA	C	212	-3.424	55.205	41.044	1.00	16.97	O
ATOM	8235	CB	ALA	C	212	-0.965	56.002	39.082	1.00	12.53	C
ATOM	8236	N	ARG	C	213	-3.617	54.124	39.063	1.00	16.85	N
ATOM	8237	CA	ARG	C	213	-5.080	53.962	39.159	1.00	16.37	C
ATOM	8238	C	ARG	C	213	-5.399	52.936	40.210	1.00	15.00	C
ATOM	8239	O	ARG	C	213	-6.294	53.152	41.026	1.00	17.02	O
ATOM	8240	CB	ARG	C	213	-5.707	53.508	37.806	1.00	17.95	C
ATOM	8241	CG	ARG	C	213	-7.234	53.444	37.875	1.00	19.45	C
ATOM	8242	CD	ARG	C	213	-7.858	54.836	37.899	1.00	20.59	C
ATOM	8243	NE	ARG	C	213	-7.665	55.419	36.584	1.00	23.55	N
ATOM	8244	CZ	ARG	C	213	-7.820	56.701	36.256	1.00	24.80	C
ATOM	8245	NH1	ARG	C	213	-8.181	57.614	37.175	1.00	21.00	N
ATOM	8246	NH2	ARG	C	213	-7.624	57.051	34.980	1.00	23.60	N
ATOM	8247	N	LEU	C	214	-4.680	51.811	40.222	1.00	15.14	N
ATOM	8248	CA	LEU	C	214	-4.928	50.778	41.223	1.00	16.23	C
ATOM	8249	C	LEU	C	214	-4.768	51.329	42.659	1.00	16.17	C
ATOM	8250	O	LEU	C	214	-5.582	51.061	43.530	1.00	15.34	O
ATOM	8251	CB	LEU	C	214	-3.988	49.590	41.025	1.00	16.14	C
ATOM	8252	CG	LEU	C	214	-4.126	48.465	42.039	1.00	17.47	C
ATOM	8253	CD1	LEU	C	214	-5.506	47.841	41.863	1.00	17.68	C
ATOM	8254	CD2	LEU	C	214	-3.032	47.434	41.866	1.00	14.89	C
ATOM	8255	N	ALA	C	215	-3.704	52.076	42.926	1.00	16.66	N
ATOM	8256	CA	ALA	C	215	-3.535	52.611	44.272	1.00	15.32	C
ATOM	8257	C	ALA	C	215	-4.717	53.514	44.660	1.00	15.95	C
ATOM	8258	O	ALA	C	215	-5.139	53.525	45.825	1.00	17.89	O
ATOM	8259	CB	ALA	C	215	-2.194	53.437	44.369	1.00	16.33	C
ATOM	8260	N	ALA	C	216	-5.207	54.310	43.711	1.00	15.87	N
ATOM	8261	CA	ALA	C	216	-6.354	55.169	44.016	1.00	18.16	C
ATOM	8262	C	ALA	C	216	-7.583	54.272	44.253	1.00	18.69	C
ATOM	8263	O	ALA	C	216	-8.339	54.513	45.176	1.00	19.35	O
ATOM	8264	CB	ALA	C	216	-6.636	56.178	42.858	1.00	15.64	C
ATOM	8265	N	ASP	C	217	-7.768	53.247	43.420	1.00	19.71	N
ATOM	8266	CA	ASP	C	217	-8.921	52.366	43.612	1.00	20.23	C
ATOM	8267	C	ASP	C	217	-8.847	51.648	44.963	1.00	20.99	C
ATOM	8268	O	ASP	C	217	-9.851	51.572	45.660	1.00	19.88	O
ATOM	8269	CB	ASP	C	217	-9.049	51.344	42.477	1.00	18.97	C
ATOM	8270	CG	ASP	C	217	-9.495	51.965	41.157	1.00	18.64	C
ATOM	8271	OD1	ASP	C	217	-10.112	53.068	41.127	1.00	20.50	O
ATOM	8272	OD2	ASP	C	217	-9.226	51.324	40.115	1.00	20.76	O
ATOM	8273	N	VAL	C	218	-7.663	51.135	45.348	1.00	18.67	N
ATOM	8274	CA	VAL	C	218	-7.525	50.475	46.663	1.00	19.12	C
ATOM	8275	C	VAL	C	218	-7.796	51.471	47.809	1.00	18.90	C
ATOM	8276	O	VAL	C	218	-8.324	51.092	48.853	1.00	18.62	O
ATOM	8277	CB	VAL	C	218	-6.096	49.841	46.839	1.00	16.34	C
ATOM	8278	CG1	VAL	C	218	-5.907	49.277	48.267	1.00	17.06	C
ATOM	8279	CG2	VAL	C	218	-5.919	48.719	45.845	1.00	13.64	C
ATOM	8280	N	ALA	C	219	-7.431	52.739	47.596	1.00	19.80	N
ATOM	8281	CA	ALA	C	219	-7.623	53.799	48.592	1.00	21.44	C
ATOM	8282	C	ALA	C	219	-9.051	54.346	48.519	1.00	21.81	C
ATOM	8283	O	ALA	C	219	-9.416	55.231	49.265	1.00	23.09	O
ATOM	8284	CB	ALA	C	219	-6.639	54.947	48.342	1.00	20.55	C
ATOM	8285	N	ASP	C	220	-9.832	53.830	47.579	1.00	23.98	N
ATOM	8286	CA	ASP	C	220	-11.228	54.228	47.408	1.00	23.59	C
ATOM	8287	C	ASP	C	220	-11.484	55.708	47.131	1.00	24.05	C
ATOM	8288	O	ASP	C	220	-12.389	56.307	47.708	1.00	25.29	O
ATOM	8289	CB	ASP	C	220	-12.020	53.763	48.635	1.00	26.08	C
ATOM	8290	CG	ASP	C	220	-13.535	53.802	48.416	1.00	29.06	C
ATOM	8291	OD1	ASP	C	220	-13.983	53.587	47.263	1.00	31.25	O
ATOM	8292	OD2	ASP	C	220	-14.265	54.032	49.403	1.00	29.26	O
ATOM	8293	N	VAL	C	221	-10.695	56.304	46.244	1.00	21.92	N
ATOM	8294	CA	VAL	C	221	-10.873	57.697	45.890	1.00	20.47	C
ATOM	8295	C	VAL	C	221	-10.635	57.872	44.402	1.00	21.24	C
ATOM	8296	O	VAL	C	221	-9.740	57.240	43.827	1.00	22.44	O
ATOM	8297	CB	VAL	C	221	-9.948	58.629	46.700	1.00	19.62	C
ATOM	8298	CG1	VAL	C	221	-10.364	58.616	48.162	1.00	16.46	C
ATOM	8299	CG2	VAL	C	221	-8.471	58.206	46.514	1.00	18.75	C
ATOM	8300	N	PRO	C	222	-11.415	58.757	43.756	1.00	20.78	N
ATOM	8301	CA	PRO	C	222	-11.380	59.072	42.323	1.00	20.61	C
ATOM	8302	C	PRO	C	222	-10.280	60.005	41.845	1.00	19.63	C
ATOM	8303	O	PRO	C	222	-10.522	60.876	41.034	1.00	19.85	O
ATOM	8304	CB	PRO	C	222	-12.788	59.642	42.071	1.00	19.95	C
ATOM	8305	CG	PRO	C	222	-13.025	60.419	43.291	1.00	19.23	C
ATOM	8306	CD	PRO	C	222	-12.544	59.462	44.404	1.00	21.41	C
ATOM	8307	N	THR	C	223	-9.066	59.792	42.357	1.00	18.84	N
ATOM	8308	CA	THR	C	223	-7.925	60.623	42.015	1.00	16.05	C
ATOM	8309	C	THR	C	223	-7.751	60.828	40.513	1.00	18.26	C
ATOM	8310	O	THR	C	223	-7.837	59.880	39.729	1.00	18.43	O
ATOM	8311	CB	THR	C	223	-6.580	59.998	42.545	1.00	15.11	C
ATOM	8312	OG1	THR	C	223	-6.730	59.593	43.899	1.00	14.85	O
ATOM	8313	CG2	THR	C	223	-5.410	61.034	42.417	1.00	15.72	C



ATOM	8314	N	VAL	C	224	-7.507	62.064	40.121	1.00	18.00	N
ATOM	8315	CA	VAL	C	224	-7.282	62.404	38.724	1.00	18.92	C
ATOM	8316	C	VAL	C	224	-5.873	61.936	38.355	1.00	19.52	C
ATOM	8317	O	VAL	C	224	-4.907	62.348	38.983	1.00	19.60	O
ATOM	8318	CB	VAL	C	224	-7.376	63.909	38.542	1.00	18.66	C
ATOM	8319	CG1	VAL	C	224	-7.070	64.294	37.081	1.00	19.96	C
ATOM	8320	CG2	VAL	C	224	-8.805	64.376	38.943	1.00	19.57	C
ATOM	8321	N	VAL	C	225	-5.765	61.079	37.344	1.00	18.86	N
ATOM	8322	CA	VAL	C	225	-4.459	60.542	36.923	1.00	18.50	C
ATOM	8323	C	VAL	C	225	-4.028	61.196	35.616	1.00	19.19	C
ATOM	8324	O	VAL	C	225	-4.723	61.090	34.616	1.00	20.74	O
ATOM	8325	CB	VAL	C	225	-4.546	59.007	36.723	1.00	14.76	C
ATOM	8326	CG1	VAL	C	225	-3.278	58.503	35.999	1.00	18.97	C
ATOM	8327	CG2	VAL	C	225	-4.755	58.325	38.055	1.00	17.19	C
ATOM	8328	N	ILE	C	226	-2.870	61.876	35.626	1.00	19.75	N
ATOM	8329	CA	ILE	C	226	-2.365	62.576	34.450	1.00	18.38	C
ATOM	8330	C	ILE	C	226	-1.120	61.897	33.877	1.00	17.99	C
ATOM	8331	O	ILE	C	226	-0.224	61.525	34.634	1.00	16.82	O
ATOM	8332	CB	ILE	C	226	-2.011	64.024	34.838	1.00	17.29	C
ATOM	8333	CG1	ILE	C	226	-3.261	64.711	35.369	1.00	19.70	C
ATOM	8334	CG2	ILE	C	226	-1.419	64.754	33.666	1.00	20.02	C
ATOM	8335	CD1	ILE	C	226	-3.022	66.009	36.062	1.00	25.39	C
ATOM	8336	N	ALA	C	227	-1.079	61.731	32.550	1.00	17.20	N
ATOM	8337	CA	ALA	C	227	0.056	61.112	31.897	1.00	19.86	C
ATOM	8338	C	ALA	C	227	0.850	62.154	31.154	1.00	20.40	C
ATOM	8339	O	ALA	C	227	0.302	62.937	30.374	1.00	21.07	O
ATOM	8340	CB	ALA	C	227	-0.388	60.005	30.917	1.00	18.82	C
ATOM	8341	N	ARG	C	228	2.149	62.144	31.386	1.00	20.11	N
ATOM	8342	CA	ARG	C	228	3.055	63.075	30.723	1.00	18.72	C
ATOM	8343	C	ARG	C	228	3.995	62.296	29.853	1.00	18.88	C
ATOM	8344	O	ARG	C	228	4.416	61.193	30.223	1.00	21.38	O
ATOM	8345	CB	ARG	C	228	3.861	63.873	31.773	1.00	18.48	C
ATOM	8346	CG	ARG	C	228	5.134	64.528	31.208	1.00	18.66	C
ATOM	8347	CD	ARG	C	228	5.823	65.408	32.287	1.00	19.35	C
ATOM	8348	NE	ARG	C	228	7.267	65.431	32.057	1.00	20.04	N
ATOM	8349	CZ	ARG	C	228	8.149	66.186	32.702	1.00	21.52	C
ATOM	8350	NH1	ARG	C	228	7.753	67.018	33.659	1.00	20.53	N
ATOM	8351	NH2	ARG	C	228	9.438	66.120	32.370	1.00	18.85	N
ATOM	8352	N	THR	C	229	4.294	62.826	28.666	1.00	18.33	N
ATOM	8353	CA	THR	C	229	5.245	62.179	27.774	1.00	19.08	C
ATOM	8354	C	THR	C	229	6.376	63.150	27.503	1.00	17.35	C
ATOM	8355	O	THR	C	229	6.150	64.338	27.267	1.00	19.14	O
ATOM	8356	CB	THR	C	229	4.657	61.780	26.429	1.00	17.44	C
ATOM	8357	OG1	THR	C	229	5.673	61.129	25.663	1.00	16.39	O
ATOM	8358	CG2	THR	C	229	4.230	63.011	25.634	1.00	21.72	C
ATOM	8359	N	ASP	C	230	7.586	62.626	27.505	1.00	17.79	N
ATOM	8360	CA	ASP	C	230	8.774	63.419	27.312	1.00	18.78	C
ATOM	8361	C	ASP	C	230	9.418	63.132	25.982	1.00	20.46	C
ATOM	8362	O	ASP	C	230	10.594	63.403	25.804	1.00	20.50	O
ATOM	8363	CB	ASP	C	230	9.769	63.094	28.438	1.00	20.79	C
ATOM	8364	CG	ASP	C	230	9.505	63.918	29.675	1.00	20.65	C
ATOM	8365	OD1	ASP	C	230	9.952	65.084	29.683	1.00	20.13	O
ATOM	8366	OD2	ASP	C	230	8.837	63.437	30.612	1.00	18.66	O
ATOM	8367	N	ALA	C	231	8.646	62.607	25.038	1.00	18.29	N
ATOM	8368	CA	ALA	C	231	9.216	62.208	23.759	1.00	20.06	C
ATOM	8369	C	ALA	C	231	9.496	63.317	22.738	1.00	21.11	C
ATOM	8370	O	ALA	C	231	10.018	63.050	21.665	1.00	22.12	O
ATOM	8371	CB	ALA	C	231	8.328	61.094	23.112	1.00	17.48	C
ATOM	8372	N	GLU	C	232	9.186	64.555	23.082	1.00	23.49	N
ATOM	8373	CA	GLU	C	232	9.397	65.666	22.167	1.00	25.18	C
ATOM	8374	C	GLU	C	232	10.896	65.905	22.022	1.00	24.88	C
ATOM	8375	O	GLU	C	232	11.399	66.049	20.912	1.00	25.24	O
ATOM	8376	CB	GLU	C	232	8.674	66.908	22.697	1.00	27.44	C
ATOM	8377	CG	GLU	C	232	8.368	67.983	21.643	1.00	31.40	C
ATOM	8378	CD	GLU	C	232	9.554	68.890	21.364	1.00	34.84	C
ATOM	8379	OE1	GLU	C	232	10.112	69.445	22.332	1.00	34.52	O
ATOM	8380	OE2	GLU	C	232	9.933	69.047	20.177	1.00	36.99	O
ATOM	8381	N	ALA	C	233	11.610	65.868	23.142	1.00	23.64	N
ATOM	8382	CA	ALA	C	233	13.046	66.097	23.158	1.00	23.15	C
ATOM	8383	C	ALA	C	233	13.919	64.907	23.488	1.00	22.10	C
ATOM	8384	O	ALA	C	233	15.081	64.895	23.109	1.00	20.79	O
ATOM	8385	CB	ALA	C	233	13.374	67.228	24.135	1.00	22.74	C
ATOM	8386	N	ALA	C	234	13.402	63.897	24.199	1.00	22.65	N
ATOM	8387	CA	ALA	C	234	14.267	62.760	24.533	1.00	22.14	C
ATOM	8388	C	ALA	C	234	14.799	62.047	23.299	1.00	22.93	C
ATOM	8389	O	ALA	C	234	14.047	61.778	22.366	1.00	22.75	O
ATOM	8390	CB	ALA	C	234	13.521	61.746	25.430	1.00	18.34	C
ATOM	8391	N	THR	C	235	16.086	61.717	23.287	1.00	21.66	N
ATOM	8392	CA	THR	C	235	16.614	60.998	22.140	1.00	23.00	C
ATOM	8393	C	THR	C	235	17.175	59.631	22.559	1.00	21.58	C



ATOM	8394	O	THR	C	235	17.944	59.008	21.828	1.00	22.14	O
ATOM	8395	CB	THR	C	235	17.703	61.812	21.441	1.00	26.06	C
ATOM	8396	OG1	THR	C	235	18.831	61.956	22.318	1.00	27.24	O
ATOM	8397	CG2	THR	C	235	17.156	63.202	21.088	1.00	26.76	C
ATOM	8398	N	LEU	C	236	16.781	59.166	23.747	1.00	20.28	N
ATOM	8399	CA	LEU	C	236	17.217	57.863	24.253	1.00	19.18	C
ATOM	8400	C	LEU	C	236	16.019	57.117	24.831	1.00	19.14	C
ATOM	8401	O	LEU	C	236	15.082	57.755	25.293	1.00	18.36	O
ATOM	8402	CB	LEU	C	236	18.246	58.015	25.380	1.00	20.09	C
ATOM	8403	CG	LEU	C	236	19.604	58.597	24.953	1.00	21.98	C
ATOM	8404	CD1	LEU	C	236	20.451	58.901	26.176	1.00	23.83	C
ATOM	8405	CD2	LEU	C	236	20.317	57.621	24.046	1.00	21.72	C
ATOM	8406	N	ILE	C	237	16.075	55.782	24.796	1.00	18.30	N
ATOM	8407	CA	ILE	C	237	15.019	54.929	25.362	1.00	17.69	C
ATOM	8408	C	ILE	C	237	15.738	53.689	25.902	1.00	16.15	C
ATOM	8409	O	ILE	C	237	16.754	53.269	25.361	1.00	16.73	O
ATOM	8410	CB	ILE	C	237	13.951	54.544	24.299	1.00	17.81	C
ATOM	8411	CG1	ILE	C	237	12.736	53.912	24.990	1.00	19.31	C
ATOM	8412	CG2	ILE	C	237	14.568	53.648	23.236	1.00	15.55	C
ATOM	8413	CD1	ILE	C	237	11.652	53.422	24.023	1.00	16.79	C
ATOM	8414	N	THR	C	238	15.228	53.116	26.982	1.00	16.00	N
ATOM	8415	CA	THR	C	238	15.880	51.971	27.600	1.00	17.13	C
ATOM	8416	C	THR	C	238	15.867	50.684	26.799	1.00	18.61	C
ATOM	8417	O	THR	C	238	16.807	49.884	26.871	1.00	17.63	O
ATOM	8418	CB	THR	C	238	15.249	51.679	29.014	1.00	17.37	C
ATOM	8419	OG1	THR	C	238	13.832	51.488	28.872	1.00	17.99	O
ATOM	8420	CG2	THR	C	238	15.424	52.862	29.939	1.00	16.55	C
ATOM	8421	N	SER	C	239	14.807	50.465	26.033	1.00	19.02	N
ATOM	8422	CA	SER	C	239	14.677	49.211	25.306	1.00	20.22	C
ATOM	8423	C	SER	C	239	13.833	49.370	24.048	1.00	20.76	C
ATOM	8424	O	SER	C	239	13.040	50.308	23.941	1.00	20.72	O
ATOM	8425	CB	SER	C	239	13.999	48.189	26.234	1.00	19.64	C
ATOM	8426	OG	SER	C	239	13.818	46.943	25.583	1.00	20.57	O
ATOM	8427	N	ASP	C	240	13.985	48.429	23.118	1.00	21.21	N
ATOM	8428	CA	ASP	C	240	13.215	48.458	21.888	1.00	21.38	C
ATOM	8429	C	ASP	C	240	12.196	47.322	21.853	1.00	20.93	C
ATOM	8430	O	ASP	C	240	11.715	46.942	20.784	1.00	22.21	O
ATOM	8431	CB	ASP	C	240	14.154	48.375	20.676	1.00	22.10	C
ATOM	8432	CG	ASP	C	240	14.855	47.038	20.549	1.00	25.22	C
ATOM	8433	OD1	ASP	C	240	15.019	46.314	21.551	1.00	24.76	O
ATOM	8434	OD2	ASP	C	240	15.264	46.698	19.415	1.00	29.04	O
ATOM	8435	N	VAL	C	241	11.856	46.784	23.022	1.00	21.56	N
ATOM	8436	CA	VAL	C	241	10.906	45.667	23.119	1.00	21.96	C
ATOM	8437	C	VAL	C	241	9.485	45.984	22.594	1.00	21.59	C
ATOM	8438	O	VAL	C	241	8.787	45.109	22.054	1.00	21.16	O
ATOM	8439	CB	VAL	C	241	10.758	45.206	24.611	1.00	23.24	C
ATOM	8440	CG1	VAL	C	241	10.205	46.359	25.448	1.00	26.05	C
ATOM	8441	CG2	VAL	C	241	9.824	43.996	24.738	1.00	26.71	C
ATOM	8442	N	ASP	C	242	9.046	47.212	22.789	1.00	20.43	N
ATOM	8443	CA	ASP	C	242	7.690	47.588	22.394	1.00	21.33	C
ATOM	8444	C	ASP	C	242	7.543	47.952	20.909	1.00	21.27	C
ATOM	8445	O	ASP	C	242	8.124	48.913	20.428	1.00	20.23	O
ATOM	8446	CB	ASP	C	242	7.215	48.723	23.285	1.00	20.86	C
ATOM	8447	CG	ASP	C	242	5.677	48.875	23.298	1.00	23.92	C
ATOM	8448	OD1	ASP	C	242	5.056	48.939	22.216	1.00	21.92	O
ATOM	8449	OD2	ASP	C	242	5.089	48.969	24.401	1.00	22.16	O
ATOM	8450	N	GLU	C	243	6.735	47.178	20.192	1.00	22.06	N
ATOM	8451	CA	GLU	C	243	6.537	47.432	18.773	1.00	22.35	C
ATOM	8452	C	GLU	C	243	6.004	48.832	18.478	1.00	20.26	C
ATOM	8453	O	GLU	C	243	6.172	49.325	17.362	1.00	17.77	O
ATOM	8454	CB	GLU	C	243	5.600	46.376	18.155	1.00	25.75	C
ATOM	8455	CG	GLU	C	243	6.064	44.953	18.419	1.00	31.99	C
ATOM	8456	CD	GLU	C	243	5.384	43.888	17.543	1.00	36.80	C
ATOM	8457	OE1	GLU	C	243	4.347	44.185	16.893	1.00	37.70	O
ATOM	8458	OE2	GLU	C	243	5.911	42.743	17.519	1.00	38.93	O
ATOM	8459	N	ARG	C	244	5.352	49.472	19.439	1.00	19.95	N
ATOM	8460	CA	ARG	C	244	4.850	50.834	19.200	1.00	18.97	C
ATOM	8461	C	ARG	C	244	5.985	51.841	19.232	1.00	18.84	C
ATOM	8462	O	ARG	C	244	5.844	52.971	18.729	1.00	17.77	O
ATOM	8463	CB	ARG	C	244	3.840	51.250	20.252	1.00	19.92	C
ATOM	8464	CG	ARG	C	244	2.531	50.529	20.166	1.00	19.75	C
ATOM	8465	CD	ARG	C	244	1.765	50.765	21.428	1.00	20.30	C
ATOM	8466	NE	ARG	C	244	2.377	50.014	22.514	1.00	19.89	N
ATOM	8467	CZ	ARG	C	244	1.725	49.657	23.613	1.00	22.03	C
ATOM	8468	NH1	ARG	C	244	0.446	50.008	23.755	1.00	21.47	N
ATOM	8469	NH2	ARG	C	244	2.328	48.915	24.547	1.00	20.91	N
ATOM	8470	N	ASP	C	245	7.104	51.441	19.836	1.00	18.91	N
ATOM	8471	CA	ASP	C	245	8.270	52.336	19.942	1.00	18.54	C
ATOM	8472	C	ASP	C	245	9.284	52.097	18.813	1.00	19.87	C
ATOM	8473	O	ASP	C	245	10.041	53.002	18.419	1.00	18.59	O



ATOM	8474	CB	ASP	C	245	8.996	52.136	21.287	1.00	15.99	C
ATOM	8475	CG	ASP	C	245	8.130	52.471	22.491	1.00	13.69	C
ATOM	8476	OD1	ASP	C	245	7.330	53.437	22.413	1.00	17.52	O
ATOM	8477	OD2	ASP	C	245	8.262	51.804	23.541	1.00	17.16	O
ATOM	8478	N	GLN	C	246	9.300	50.874	18.304	1.00	20.26	N
ATOM	8479	CA	GLN	C	246	10.250	50.475	17.282	1.00	22.13	C
ATOM	8480	C	GLN	C	246	10.347	51.360	16.034	1.00	21.97	C
ATOM	8481	O	GLN	C	246	11.427	51.529	15.498	1.00	21.74	O
ATOM	8482	CB	GLN	C	246	9.991	49.010	16.898	1.00	23.16	C
ATOM	8483	CG	GLN	C	246	10.321	48.038	18.026	1.00	22.71	C
ATOM	8484	CD	GLN	C	246	9.865	46.633	17.756	1.00	24.09	C
ATOM	8485	OE1	GLN	C	246	9.518	46.288	16.629	1.00	23.25	O
ATOM	8486	NE2	GLN	C	246	9.880	45.800	18.785	1.00	22.87	N
ATOM	8487	N	PRO	C	247	9.240	51.989	15.595	1.00	22.20	N
ATOM	8488	CA	PRO	C	247	9.404	52.816	14.390	1.00	22.72	C
ATOM	8489	C	PRO	C	247	10.310	54.028	14.591	1.00	24.11	C
ATOM	8490	O	PRO	C	247	10.730	54.672	13.621	1.00	24.18	O
ATOM	8491	CB	PRO	C	247	7.975	53.253	14.060	1.00	23.33	C
ATOM	8492	CG	PRO	C	247	7.103	52.134	14.653	1.00	22.82	C
ATOM	8493	CD	PRO	C	247	7.816	51.883	15.979	1.00	21.71	C
ATOM	8494	N	PHE	C	248	10.607	54.354	15.840	1.00	22.57	N
ATOM	8495	CA	PHE	C	248	11.433	55.516	16.105	1.00	22.85	C
ATOM	8496	C	PHE	C	248	12.841	55.122	16.536	1.00	24.78	C
ATOM	8497	O	PHE	C	248	13.747	55.962	16.597	1.00	25.01	O
ATOM	8498	CB	PHE	C	248	10.750	56.380	17.175	1.00	21.43	C
ATOM	8499	CG	PHE	C	248	9.357	56.820	16.794	1.00	24.90	C
ATOM	8500	CD1	PHE	C	248	9.155	57.805	15.826	1.00	24.36	C
ATOM	8501	CD2	PHE	C	248	8.249	56.235	17.386	1.00	22.84	C
ATOM	8502	CE1	PHE	C	248	7.853	58.184	15.465	1.00	26.06	C
ATOM	8503	CE2	PHE	C	248	6.964	56.595	17.045	1.00	24.14	C
ATOM	8504	CZ	PHE	C	248	6.753	57.570	16.082	1.00	24.58	C
ATOM	8505	N	ILE	C	249	13.031	53.845	16.838	1.00	24.76	N
ATOM	8506	CA	ILE	C	249	14.334	53.355	17.274	1.00	26.09	C
ATOM	8507	C	ILE	C	249	15.284	53.291	16.085	1.00	26.16	C
ATOM	8508	O	ILE	C	249	14.977	52.673	15.058	1.00	24.92	O
ATOM	8509	CB	ILE	C	249	14.233	51.933	17.904	1.00	26.06	C
ATOM	8510	CG1	ILE	C	249	13.396	51.988	19.175	1.00	30.72	C
ATOM	8511	CG2	ILE	C	249	15.619	51.397	18.232	1.00	27.85	C
ATOM	8512	CD1	ILE	C	249	13.837	53.016	20.096	1.00	31.53	C
ATOM	8513	N	THR	C	250	16.452	53.897	16.230	1.00	25.45	N
ATOM	8514	CA	THR	C	250	17.388	53.909	15.124	1.00	24.89	C
ATOM	8515	C	THR	C	250	18.318	52.714	15.052	1.00	25.61	C
ATOM	8516	O	THR	C	250	18.987	52.548	14.037	1.00	25.83	O
ATOM	8517	CB	THR	C	250	18.288	55.156	15.156	1.00	24.17	C
ATOM	8518	OG1	THR	C	250	19.250	55.002	16.201	1.00	23.76	O
ATOM	8519	CG2	THR	C	250	17.475	56.402	15.387	1.00	24.20	C
ATOM	8520	N	GLY	C	251	18.389	51.895	16.102	1.00	24.02	N
ATOM	8521	CA	GLY	C	251	19.309	50.770	16.072	1.00	23.48	C
ATOM	8522	C	GLY	C	251	20.638	51.102	16.747	1.00	24.07	C
ATOM	8523	O	GLY	C	251	21.314	50.216	17.247	1.00	23.92	O
ATOM	8524	N	GLU	C	252	21.004	52.382	16.766	1.00	22.99	N
ATOM	8525	CA	GLU	C	252	22.232	52.847	17.408	1.00	23.71	C
ATOM	8526	C	GLU	C	252	22.076	52.804	18.944	1.00	22.99	C
ATOM	8527	O	GLU	C	252	21.031	53.182	19.480	1.00	22.32	O
ATOM	8528	CB	GLU	C	252	22.492	54.290	16.975	1.00	23.95	C
ATOM	8529	CG	GLU	C	252	23.728	54.889	17.570	1.00	25.74	C
ATOM	8530	CD	GLU	C	252	24.057	56.255	16.985	1.00	27.46	C
ATOM	8531	OE1	GLU	C	252	23.468	56.666	15.956	1.00	27.25	O
ATOM	8532	OE2	GLU	C	252	24.925	56.912	17.562	1.00	25.74	C
ATOM	8533	N	ARG	C	253	23.120	52.364	19.636	1.00	24.48	N
ATOM	8534	CA	ARG	C	253	23.117	52.273	21.104	1.00	26.68	C
ATOM	8535	C	ARG	C	253	24.283	53.057	21.719	1.00	28.19	C
ATOM	8536	O	ARG	C	253	25.346	53.205	21.098	1.00	28.51	O
ATOM	8537	CB	ARG	C	253	23.278	50.828	21.528	1.00	28.03	C
ATOM	8538	CG	ARG	C	253	22.357	49.918	20.810	1.00	31.58	C
ATOM	8539	CD	ARG	C	253	21.263	49.552	21.730	1.00	32.65	C
ATOM	8540	NE	ARG	C	253	21.643	48.505	22.660	1.00	34.43	N
ATOM	8541	CZ	ARG	C	253	22.235	47.373	22.302	1.00	36.09	C
ATOM	8542	NH1	ARG	C	253	22.535	47.168	21.022	1.00	37.99	N
ATOM	8543	NH2	ARG	C	253	22.455	46.421	23.198	1.00	33.30	N
ATOM	8544	N	THR	C	254	24.090	53.537	22.945	1.00	28.44	N
ATOM	8545	CA	THR	C	254	25.146	54.270	23.635	1.00	27.58	C
ATOM	8546	C	THR	C	254	25.939	53.243	24.406	1.00	27.62	O
ATOM	8547	O	THR	C	254	25.560	52.073	24.451	1.00	28.36	O
ATOM	8548	CB	THR	C	254	24.581	55.282	24.633	1.00	26.26	C
ATOM	8549	OG1	THR	C	254	23.929	54.575	25.691	1.00	24.17	O
ATOM	8550	CG2	THR	C	254	23.613	56.242	23.956	1.00	26.45	C
ATOM	8551	N	ARG	C	255	27.027	53.669	25.042	1.00	30.08	N
ATOM	8552	CA	ARG	C	255	27.856	52.728	25.805	1.00	30.65	C
ATOM	8553	C	ARG	C	255	27.122	52.201	27.035	1.00	29.59	C



ATOM	8554	O	ARG	C	255	27.416	51.118	27.508	1.00	30.30	
ATOM	8555	CB	ARG	C	255	29.178	53.394	26.225	1.00	33.91	
ATOM	8556	CG	ARG	C	255	29.974	53.919	25.031	1.00	40.27	
ATOM	8557	CD	ARG	C	255	31.357	54.452	25.417	1.00	45.25	
ATOM	8558	NE	ARG	C	255	32.255	53.416	25.948	1.00	49.74	
ATOM	8559	CZ	ARG	C	255	32.786	52.422	25.231	1.00	51.79	
ATOM	8560	NH1	ARG	C	255	32.517	52.310	23.930	1.00	52.53	
ATOM	8561	NH2	ARG	C	255	33.588	51.530	25.816	1.00	52.84	
ATOM	8562	N	GLU	C	256	26.154	52.957	27.545	1.00	29.08	
ATOM	8563	CA	GLU	C	256	25.412	52.496	28.719	1.00	27.87	
ATOM	8564	C	GLU	C	256	24.412	51.437	28.306	1.00	28.41	
ATOM	8565	O	GLU	C	256	23.895	50.697	29.137	1.00	29.61	
ATOM	8566	CB	GLU	C	256	24.686	53.653	29.378	1.00	28.34	
ATOM	8567	CG	GLU	C	256	25.625	54.740	29.856	1.00	30.26	
ATOM	8568	CD	GLU	C	256	25.577	55.966	28.994	1.00	31.06	
ATOM	8569	OE1	GLU	C	256	25.440	55.813	27.749	1.00	31.30	
ATOM	8570	OE2	GLU	C	256	25.688	57.091	29.560	1.00	31.17	
ATOM	8571	N	GLY	C	257	24.152	51.364	27.006	1.00	28.38	
ATOM	8572	CA	GLY	C	257	23.207	50.394	26.485	1.00	26.04	
ATOM	8573	C	GLY	C	257	21.853	50.991	26.123	1.00	24.96	
ATOM	8574	O	GLY	C	257	20.925	50.234	25.806	1.00	26.50	
ATOM	8575	N	PHE	C	258	21.720	52.321	26.158	1.00	23.26	
ATOM	8576	CA	PHE	C	258	20.452	52.963	25.820	1.00	22.11	
ATOM	8577	C	PHE	C	258	20.318	52.972	24.314	1.00	23.67	
ATOM	8578	O	PHE	C	258	21.319	52.941	23.603	1.00	23.94	
ATOM	8579	CB	PHE	C	258	20.414	54.400	26.317	1.00	21.83	
ATOM	8580	CG	PHE	C	258	20.498	54.533	27.810	1.00	23.42	
ATOM	8581	CD1	PHE	C	258	19.737	53.716	28.632	1.00	23.49	
ATOM	8582	CD2	PHE	C	258	21.300	55.508	28.389	1.00	23.89	
ATOM	8583	CE1	PHE	C	258	19.770	53.866	30.023	1.00	24.63	
ATOM	8584	CE2	PHE	C	258	21.341	55.669	29.770	1.00	25.30	
ATOM	8585	CZ	PHE	C	258	20.575	54.849	30.595	1.00	23.95	
ATOM	8586	N	TYR	C	259	19.087	52.994	23.825	1.00	22.87	
ATOM	8587	CA	TYR	C	259	18.849	53.039	22.387	1.00	21.83	
ATOM	8588	C	TYR	C	259	18.542	54.451	21.914	1.00	22.11	
ATOM	8589	O	TYR	C	259	17.711	55.155	22.526	1.00	21.62	
ATOM	8590	CB	TYR	C	259	17.642	52.153	22.020	1.00	21.90	
ATOM	8591	CG	TYR	C	259	17.870	50.684	22.193	1.00	21.30	
ATOM	8592	CD1	TYR	C	259	17.812	50.094	23.444	1.00	20.25	
ATOM	8593	CD2	TYR	C	259	18.137	49.864	21.086	1.00	23.65	
ATOM	8594	CE1	TYR	C	259	18.013	48.725	23.593	1.00	22.01	
ATOM	8595	CE2	TYR	C	259	18.337	48.511	21.227	1.00	23.81	
ATOM	8596	CZ	TYR	C	259	18.276	47.940	22.483	1.00	24.19	
ATOM	8597	OH	TYR	C	259	18.484	46.588	22.614	1.00	27.65	
ATOM	8598	N	ARG	C	260	19.187	54.895	20.832	1.00	21.86	
ATOM	8599	CA	ARG	C	260	18.855	56.202	20.300	1.00	22.74	
ATOM	8600	C	ARG	C	260	17.461	56.071	19.637	1.00	23.03	
ATOM	8601	O	ARG	C	260	17.113	55.031	19.059	1.00	22.13	
ATOM	8602	CB	ARG	C	260	19.892	56.668	19.260	1.00	25.12	
ATOM	8603	CG	ARG	C	260	21.214	57.120	19.851	1.00	26.93	
ATOM	8604	CD	ARG	C	260	21.131	58.522	20.504	1.00	29.54	
ATOM	8605	NE	ARG	C	260	22.360	58.808	21.259	1.00	30.64	
ATOM	8606	CZ	ARG	C	260	22.474	59.720	22.227	1.00	32.83	
ATOM	8607	NH1	ARG	C	260	21.431	60.470	22.580	1.00	32.22	
ATOM	8608	NH2	ARG	C	260	23.627	59.848	22.888	1.00	31.81	
ATOM	8609	N	THR	C	261	16.683	57.142	19.729	1.00	23.74	
ATOM	8610	CA	THR	C	261	15.351	57.168	19.168	1.00	22.92	
ATOM	8611	C	THR	C	261	15.039	58.579	18.641	1.00	24.06	
ATOM	8612	O	THR	C	261	15.448	59.572	19.242	1.00	23.35	
ATOM	8613	CB	THR	C	261	14.362	56.750	20.272	1.00	23.15	
ATOM	8614	OG1	THR	C	261	13.061	56.581	19.707	1.00	23.30	
ATOM	8615	CG2	THR	C	261	14.323	57.808	21.380	1.00	20.34	
ATOM	8616	N	LYS	C	262	14.316	58.665	17.521	1.00	25.78	
ATOM	8617	CA	LYS	C	262	13.942	59.943	16.917	1.00	26.73	
ATOM	8618	C	LYS	C	262	12.819	60.661	17.661	1.00	27.42	
ATOM	8619	O	LYS	C	262	11.691	60.168	17.754	1.00	27.58	
ATOM	8620	CB	LYS	C	262	13.557	59.730	15.444	1.00	29.93	
ATOM	8621	CG	LYS	C	262	14.786	59.664	14.537	1.00	34.80	
ATOM	8622	CD	LYS	C	262	14.433	59.334	13.098	1.00	39.38	
ATOM	8623	CE	LYS	C	262	15.680	59.315	12.197	1.00	41.93	
ATOM	8624	NZ	LYS	C	262	16.326	60.642	11.893	1.00	42.94	
ATOM	8625	N	ASN	C	263	13.135	61.855	18.158	1.00	26.87	
ATOM	8626	CA	ASN	C	263	12.225	62.676	18.952	1.00	26.35	
ATOM	8627	C	ASN	C	263	11.304	63.570	18.140	1.00	26.22	
ATOM	8628	O	ASN	C	263	11.502	63.740	16.951	1.00	28.37	
ATOM	8629	CB	ASN	C	263	13.044	63.551	19.898	1.00	26.73	
ATOM	8630	CG	ASN	C	263	13.958	64.495	19.146	1.00	28.29	
ATOM	8631	OD1	ASN	C	263	14.815	64.061	18.381	1.00	27.05	
ATOM	8632	ND2	ASN	C	263	13.762	65.784	19.340	1.00	28.52	
ATOM	8633	N	GLY	C	264	10.297	64.158	18.791	1.00	26.90	



ATOM	8634	CA	GLY	C	264	9.386	65.030	18.086	1.00	25.19	C
ATOM	8635	C	GLY	C	264	7.935	64.883	18.456	1.00	26.16	C
ATOM	8636	O	GLY	C	264	7.557	64.098	19.311	1.00	24.69	O
ATOM	8637	N	ILE	C	265	7.093	65.654	17.799	1.00	26.23	N
ATOM	8638	CA	ILE	C	265	5.677	65.597	18.099	1.00	26.77	C
ATOM	8639	C	ILE	C	265	5.063	64.266	17.671	1.00	26.37	C
ATOM	8640	O	ILE	C	265	4.088	63.795	18.277	1.00	26.05	O
ATOM	8641	CB	ILE	C	265	4.943	66.747	17.414	1.00	27.23	C
ATOM	8642	CG1	ILE	C	265	3.481	66.760	17.884	1.00	29.23	C
ATOM	8643	CG2	ILE	C	265	5.082	66.593	15.882	1.00	27.97	C
ATOM	8644	CD1	ILE	C	265	2.750	68.094	17.665	1.00	32.26	C
ATOM	8645	N	GLU	C	266	5.634	63.644	16.638	1.00	27.73	N
ATOM	8646	CA	GLU	C	266	5.096	62.371	16.165	1.00	28.03	C
ATOM	8647	C	GLU	C	266	5.128	61.274	17.246	1.00	25.94	C
ATOM	8648	O	GLU	C	266	4.099	60.659	17.536	1.00	23.98	O
ATOM	8649	CB	GLU	C	266	5.830	61.924	14.888	1.00	30.67	C
ATOM	8650	CG	GLU	C	266	5.647	60.462	14.566	1.00	36.96	C
ATOM	8651	CD	GLU	C	266	5.942	60.128	13.112	1.00	40.29	C
ATOM	8652	OE1	GLU	C	266	6.756	60.862	12.506	1.00	42.58	O
ATOM	8653	OE2	GLU	C	266	5.370	59.126	12.592	1.00	42.50	O
ATOM	8654	N	PRO	C	267	6.295	61.024	17.857	1.00	23.73	N
ATOM	8655	CA	PRO	C	267	6.195	59.962	18.867	1.00	24.81	C
ATOM	8656	C	PRO	C	267	5.382	60.381	20.114	1.00	22.46	C
ATOM	8657	O	PRO	C	267	4.956	59.528	20.892	1.00	21.48	O
ATOM	8658	CB	PRO	C	267	7.671	59.609	19.141	1.00	23.00	C
ATOM	8659	CG	PRO	C	267	8.402	60.864	18.797	1.00	23.32	C
ATOM	8660	CD	PRO	C	267	7.705	61.276	17.517	1.00	23.57	C
ATOM	8661	N	CYS	C	268	5.154	61.683	20.296	1.00	23.56	N
ATOM	8662	CA	CYS	C	268	4.357	62.153	21.435	1.00	22.29	C
ATOM	8663	C	CYS	C	268	2.878	61.855	21.154	1.00	23.54	C
ATOM	8664	O	CYS	C	268	2.108	61.476	22.069	1.00	20.53	O
ATOM	8665	CB	CYS	C	268	4.550	63.662	21.673	1.00	24.06	C
ATOM	8666	SG	CYS	C	268	6.172	64.154	22.337	1.00	23.73	S
ATOM	8667	N	ILE	C	269	2.472	62.034	19.891	1.00	21.63	N
ATOM	8668	CA	ILE	C	269	1.086	61.750	19.513	1.00	21.96	C
ATOM	8669	C	ILE	C	269	0.858	60.246	19.695	1.00	20.81	C
ATOM	8670	O	ILE	C	269	-0.121	59.824	20.286	1.00	22.09	O
ATOM	8671	CB	ILE	C	269	0.794	62.174	18.027	1.00	22.92	C
ATOM	8672	CG1	ILE	C	269	0.513	63.677	17.979	1.00	22.27	C
ATOM	8673	CG2	ILE	C	269	-0.419	61.367	17.448	1.00	23.03	C
ATOM	8674	CD1	ILE	C	269	0.871	64.340	16.666	1.00	24.46	C
ATOM	8675	N	ALA	C	270	1.808	59.451	19.232	1.00	21.18	N
ATOM	8676	CA	ALA	C	270	1.711	57.989	19.348	1.00	21.18	C
ATOM	8677	C	ALA	C	270	1.599	57.552	20.812	1.00	20.66	C
ATOM	8678	O	ALA	C	270	0.725	56.770	21.167	1.00	20.18	O
ATOM	8679	CB	ALA	C	270	2.936	57.332	18.691	1.00	21.67	C
ATOM	8680	N	ARG	C	271	2.482	58.065	21.660	1.00	19.86	N
ATOM	8681	CA	ARG	C	271	2.441	57.712	23.085	1.00	20.23	C
ATOM	8682	C	ARG	C	271	1.130	58.219	23.731	1.00	21.49	C
ATOM	8683	O	ARG	C	271	0.444	57.482	24.449	1.00	22.74	O
ATOM	8684	CB	ARG	C	271	3.708	58.259	23.790	1.00	18.98	C
ATOM	8685	CG	ARG	C	271	4.934	57.388	23.528	1.00	17.58	C
ATOM	8686	CD	ARG	C	271	6.251	57.940	24.076	1.00	17.83	C
ATOM	8687	NE	ARG	C	271	7.339	56.984	23.870	1.00	16.16	N
ATOM	8688	CZ	ARG	C	271	7.830	56.191	24.823	1.00	17.57	C
ATOM	8689	NH1	ARG	C	271	7.352	56.239	26.061	1.00	17.92	N
ATOM	8690	NH2	ARG	C	271	8.805	55.336	24.530	1.00	19.22	N
ATOM	8691	N	ALA	C	272	0.737	59.453	23.437	1.00	20.29	N
ATOM	8692	CA	ALA	C	272	-0.501	59.981	23.997	1.00	20.91	C
ATOM	8693	C	ALA	C	272	-1.713	59.101	23.675	1.00	20.64	C
ATOM	8694	O	ALA	C	272	-2.568	58.880	24.533	1.00	22.02	O
ATOM	8695	CB	ALA	C	272	-0.744	61.400	23.476	1.00	20.68	C
ATOM	8696	N	LYS	C	273	-1.796	58.621	22.436	1.00	22.11	N
ATOM	8697	CA	LYS	C	273	-2.905	57.765	22.024	1.00	23.36	C
ATOM	8698	C	LYS	C	273	-2.870	56.464	22.803	1.00	22.10	C
ATOM	8699	O	LYS	C	273	-3.921	55.941	23.228	1.00	22.00	O
ATOM	8700	CB	LYS	C	273	-2.835	57.484	20.512	1.00	25.59	C
ATOM	8701	CG	LYS	C	273	-3.070	58.730	19.657	1.00	23.22	C
ATOM	8702	CD	LYS	C	273	-3.073	58.410	18.164	1.00	27.26	C
ATOM	8703	CE	LYS	C	273	-3.401	59.669	17.348	1.00	26.11	C
ATOM	8704	NZ	LYS	C	273	-3.137	59.425	15.884	1.00	31.62	N
ATOM	8705	N	ALA	C	274	-1.662	55.943	23.000	1.00	20.04	N
ATOM	8706	CA	ALA	C	274	-1.504	54.699	23.745	1.00	20.06	C
ATOM	8707	C	ALA	C	274	-1.886	54.910	25.203	1.00	19.35	C
ATOM	8708	O	ALA	C	274	-2.458	54.015	25.837	1.00	17.97	O
ATOM	8709	CB	ALA	C	274	-0.045	54.190	23.637	1.00	16.69	C
ATOM	8710	N	TYR	C	275	-1.575	56.092	25.750	1.00	19.62	N
ATOM	8711	CA	TYR	C	275	-1.894	56.379	27.157	1.00	18.74	C
ATOM	8712	C	TYR	C	275	-3.338	56.811	27.404	1.00	19.75	C
ATOM	8713	O	TYR	C	275	-3.853	56.656	28.515	1.00	16.41	O



ATOM	8714	CB	TYR	C	275	-1.013	57.509	27.726	1.00	19.02	C
ATOM	8715	CG	TYR	C	275	0.485	57.327	27.588	1.00	18.05	C
ATOM	8716	CD1	TYR	C	275	1.054	56.053	27.477	1.00	18.01	C
ATOM	8717	CD2	TYR	C	275	1.335	58.428	27.571	1.00	17.14	C
ATOM	8718	CE1	TYR	C	275	2.433	55.886	27.341	1.00	14.85	C
ATOM	8719	CE2	TYR	C	275	2.719	58.270	27.450	1.00	16.26	C
ATOM	8720	CZ	TYR	C	275	3.260	56.987	27.327	1.00	16.41	C
ATOM	8721	OH	TYR	C	275	4.611	56.815	27.145	1.00	14.12	O
ATOM	8722	N	ALA	C	276	-4.010	57.321	26.371	1.00	19.54	N
ATOM	8723	CA	ALA	C	276	-5.359	57.843	26.569	1.00	20.08	C
ATOM	8724	C	ALA	C	276	-6.349	57.005	27.365	1.00	20.86	C
ATOM	8725	O	ALA	C	276	-7.035	57.547	28.226	1.00	23.36	O
ATOM	8726	CB	ALA	C	276	-5.982	58.282	25.188	1.00	22.31	C
ATOM	8727	N	PRO	C	277	-6.451	55.687	27.107	1.00	19.18	N
ATOM	8728	CA	PRO	C	277	-7.401	54.873	27.871	1.00	21.44	C
ATOM	8729	C	PRO	C	277	-7.073	54.800	29.371	1.00	22.39	C
ATOM	8730	O	PRO	C	277	-7.919	54.408	30.199	1.00	19.96	O
ATOM	8731	CB	PRO	C	277	-7.302	53.496	27.214	1.00	20.52	C
ATOM	8732	CG	PRO	C	277	-6.932	53.807	25.795	1.00	21.98	C
ATOM	8733	CD	PRO	C	277	-5.920	54.945	25.950	1.00	19.98	C
ATOM	8734	N	PHE	C	278	-5.846	55.203	29.718	1.00	20.52	N
ATOM	8735	CA	PHE	C	278	-5.413	55.141	31.111	1.00	21.72	C
ATOM	8736	C	PHE	C	278	-5.097	56.516	31.743	1.00	20.63	C
ATOM	8737	O	PHE	C	278	-4.491	56.584	32.823	1.00	20.94	O
ATOM	8738	CB	PHE	C	278	-4.172	54.233	31.211	1.00	21.76	C
ATOM	8739	CG	PHE	C	278	-4.271	52.962	30.411	1.00	21.63	C
ATOM	8740	CD1	PHE	C	278	-3.891	52.931	29.074	1.00	19.23	C
ATOM	8741	CD2	PHE	C	278	-4.705	51.775	31.002	1.00	23.77	C
ATOM	8742	CE1	PHE	C	278	-3.931	51.764	28.343	1.00	21.14	C
ATOM	8743	CE2	PHE	C	278	-4.752	50.596	30.269	1.00	21.11	C
ATOM	8744	CZ	PHE	C	278	-4.367	50.581	28.947	1.00	22.63	C
ATOM	8745	N	ALA	C	279	-5.529	57.594	31.095	1.00	19.87	N
ATOM	8746	CA	ALA	C	279	-5.254	58.944	31.584	1.00	20.87	C
ATOM	8747	C	ALA	C	279	-6.444	59.906	31.591	1.00	21.46	C
ATOM	8748	O	ALA	C	279	-7.110	60.046	30.576	1.00	21.17	O
ATOM	8749	CB	ALA	C	279	-4.155	59.547	30.751	1.00	20.95	C
ATOM	8750	N	ASP	C	280	-6.711	60.556	32.719	1.00	19.73	N
ATOM	8751	CA	ASP	C	280	-7.795	61.532	32.763	1.00	22.07	C
ATOM	8752	C	ASP	C	280	-7.359	62.797	32.015	1.00	22.07	C
ATOM	8753	O	ASP	C	280	-8.195	63.523	31.470	1.00	22.59	O
ATOM	8754	CB	ASP	C	280	-8.178	61.847	34.197	1.00	22.27	C
ATOM	8755	CG	ASP	C	280	-8.709	60.637	34.924	1.00	23.84	C
ATOM	8756	OD1	ASP	C	280	-9.519	59.899	34.326	1.00	23.07	O
ATOM	8757	OD2	ASP	C	280	-8.331	60.412	36.091	1.00	20.98	O
ATOM	8758	N	LEU	C	281	-6.047	63.052	31.983	1.00	22.10	N
ATOM	8759	CA	LEU	C	281	-5.474	64.157	31.246	1.00	21.29	C
ATOM	8760	C	LEU	C	281	-4.157	63.734	30.640	1.00	22.96	C
ATOM	8761	O	LEU	C	281	-3.443	62.902	31.204	1.00	21.47	O
ATOM	8762	CB	LEU	C	281	-5.222	65.368	32.130	1.00	22.86	C
ATOM	8763	CG	LEU	C	281	-6.459	66.124	32.554	1.00	23.47	C
ATOM	8764	CD1	LEU	C	281	-6.720	65.799	33.964	1.00	24.17	C
ATOM	8765	CD2	LEU	C	281	-6.250	67.612	32.365	1.00	25.89	C
ATOM	8766	N	ILE	C	282	-3.822	64.312	29.492	1.00	21.80	N
ATOM	8767	CA	ILE	C	282	-2.565	63.989	28.843	1.00	22.72	C
ATOM	8768	C	ILE	C	282	-1.793	65.252	28.591	1.00	22.35	C
ATOM	8769	O	ILE	C	282	-2.363	66.248	28.173	1.00	18.69	O
ATOM	8770	CB	ILE	C	282	-2.762	63.258	27.506	1.00	25.71	C
ATOM	8771	CG1	ILE	C	282	-3.359	61.868	27.774	1.00	25.76	C
ATOM	8772	CG2	ILE	C	282	-1.388	63.124	26.785	1.00	24.94	C
ATOM	8773	CD1	ILE	C	282	-3.986	61.163	26.537	1.00	26.80	C
ATOM	8774	N	TRP	C	283	-0.470	65.168	28.781	1.00	21.60	N
ATOM	8775	CA	TRP	C	283	0.418	66.310	28.645	1.00	20.53	C
ATOM	8776	C	TRP	C	283	1.687	65.976	27.891	1.00	21.38	C
ATOM	8777	O	TRP	C	283	2.274	64.928	28.120	1.00	20.65	O
ATOM	8778	CB	TRP	C	283	0.713	66.778	30.080	1.00	19.80	C
ATOM	8779	CG	TRP	C	283	1.982	67.539	30.376	1.00	20.17	C
ATOM	8780	CD1	TRP	C	283	2.699	68.338	29.531	1.00	19.51	C
ATOM	8781	CD2	TRP	C	283	2.596	67.655	31.663	1.00	20.03	C
ATOM	8782	NE1	TRP	C	283	3.729	68.950	30.222	1.00	21.44	N
ATOM	8783	CE2	TRP	C	283	3.684	68.541	31.533	1.00	19.80	C
ATOM	8784	CE3	TRP	C	283	2.325	67.092	32.922	1.00	20.96	C
ATOM	8785	CZ2	TRP	C	283	4.504	68.877	32.610	1.00	22.48	C
ATOM	8786	CZ3	TRP	C	283	3.140	67.419	33.996	1.00	22.43	C
ATOM	8787	CH2	TRP	C	283	4.217	68.303	33.833	1.00	22.33	C
ATOM	8788	N	MET	C	284	2.093	66.824	26.945	1.00	20.44	N
ATOM	8789	CA	MET	C	284	3.352	66.558	26.265	1.00	21.59	C
ATOM	8790	C	MET	C	284	4.269	67.739	26.552	1.00	23.58	C
ATOM	8791	O	MET	C	284	3.851	68.886	26.403	1.00	22.38	O
ATOM	8792	CB	MET	C	284	3.184	66.364	24.741	1.00	22.87	C
ATOM	8793	CG	MET	C	284	3.165	67.616	23.908	1.00	24.16	C



ATOM	8794	SD	MET	C	284	3.369	67.248	22.114	1.00	25.82	S
ATOM	8795	CE	MET	C	284	5.005	67.710	21.797	1.00	26.37	C
ATOM	8796	N	GLU	C	285	5.497	67.468	27.003	1.00	23.85	N
ATOM	8797	CA	GLU	C	285	6.438	68.557	27.277	1.00	24.26	C
ATOM	8798	C	GLU	C	285	6.907	69.068	25.911	1.00	24.18	C
ATOM	8799	O	GLU	C	285	7.086	68.276	24.975	1.00	23.31	O
ATOM	8800	CB	GLU	C	285	7.629	68.056	28.093	1.00	25.07	C
ATOM	8801	CG	GLU	C	285	7.398	67.974	29.596	1.00	26.65	C
ATOM	8802	CD	GLU	C	285	7.324	69.360	30.304	1.00	28.54	C
ATOM	8803	OE1	GLU	C	285	6.353	70.114	30.092	1.00	29.94	O
ATOM	8804	OE2	GLU	C	285	8.222	69.683	31.097	1.00	29.50	O
ATOM	8805	N	THR	C	286	7.058	70.386	25.775	1.00	25.02	N
ATOM	8806	CA	THR	C	286	7.513	70.971	24.496	1.00	27.41	C
ATOM	8807	C	THR	C	286	8.705	71.899	24.717	1.00	28.29	C
ATOM	8808	O	THR	C	286	8.911	72.419	25.823	1.00	27.44	O
ATOM	8809	CB	THR	C	286	6.392	71.790	23.802	1.00	27.69	C
ATOM	8810	OG1	THR	C	286	5.877	72.774	24.714	1.00	29.84	O
ATOM	8811	CG2	THR	C	286	5.250	70.902	23.399	1.00	30.39	C
ATOM	8812	N	GLY	C	287	9.488	72.106	23.662	1.00	29.29	N
ATOM	8813	CA	GLY	C	287	10.656	72.966	23.771	1.00	29.61	C
ATOM	8814	C	GLY	C	287	10.397	74.478	23.742	1.00	31.13	C
ATOM	8815	O	GLY	C	287	11.281	75.255	24.081	1.00	32.58	O
ATOM	8816	N	THR	C	288	9.205	74.905	23.338	1.00	30.23	N
ATOM	8817	CA	THR	C	288	8.887	76.324	23.279	1.00	30.27	C
ATOM	8818	C	THR	C	288	7.387	76.516	23.467	1.00	30.00	C
ATOM	8819	O	THR	C	288	6.599	75.585	23.236	1.00	29.21	O
ATOM	8820	CB	THR	C	288	9.233	76.924	21.903	1.00	30.95	C
ATOM	8821	OG1	THR	C	288	8.415	76.294	20.915	1.00	32.16	O
ATOM	8822	CG2	THR	C	288	10.695	76.712	21.552	1.00	30.96	C
ATOM	8823	N	PRO	C	289	6.965	77.716	23.898	1.00	29.49	N
ATOM	8824	CA	PRO	C	289	5.529	77.922	24.066	1.00	30.58	C
ATOM	8825	C	PRO	C	289	4.946	78.228	22.658	1.00	32.58	C
ATOM	8826	O	PRO	C	289	4.831	79.385	22.257	1.00	32.01	O
ATOM	8827	CB	PRO	C	289	5.473	79.117	25.016	1.00	31.31	C
ATOM	8828	CG	PRO	C	289	6.694	79.909	24.615	1.00	29.69	C
ATOM	8829	CD	PRO	C	289	7.735	78.850	24.448	1.00	30.55	C
ATOM	8830	N	ASP	C	290	4.569	77.185	21.926	1.00	33.19	N
ATOM	8831	CA	ASP	C	290	4.055	77.315	20.553	1.00	33.63	C
ATOM	8832	C	ASP	C	290	2.591	76.872	20.416	1.00	33.45	C
ATOM	8833	O	ASP	C	290	2.284	75.677	20.490	1.00	32.52	O
ATOM	8834	CB	ASP	C	290	4.957	76.480	19.653	1.00	34.50	C
ATOM	8835	CG	ASP	C	290	4.550	76.508	18.197	1.00	36.48	C
ATOM	8836	OD1	ASP	C	290	3.634	77.263	17.806	1.00	37.71	O
ATOM	8837	OD2	ASP	C	290	5.168	75.751	17.426	1.00	37.99	O
ATOM	8838	N	LEU	C	291	1.693	77.837	20.217	1.00	32.42	N
ATOM	8839	CA	LEU	C	291	0.267	77.537	20.088	1.00	31.35	C
ATOM	8840	C	LEU	C	291	-0.027	76.651	18.876	1.00	31.58	C
ATOM	8841	O	LEU	C	291	-1.000	75.892	18.861	1.00	30.70	O
ATOM	8842	CB	LEU	C	291	-0.541	78.832	19.977	1.00	31.54	C
ATOM	8843	CG	LEU	C	291	-0.633	79.787	21.181	1.00	31.16	C
ATOM	8844	CD1	LEU	C	291	-1.349	81.061	20.741	1.00	30.33	C
ATOM	8845	CD2	LEU	C	291	-1.383	79.137	22.349	1.00	29.15	C
ATOM	8846	N	GLU	C	292	0.798	76.765	17.850	1.00	32.29	N
ATOM	8847	CA	GLU	C	292	0.590	75.965	16.654	1.00	35.17	C
ATOM	8848	C	GLU	C	292	0.874	74.482	16.945	1.00	34.09	C
ATOM	8849	O	GLU	C	292	0.055	73.618	16.616	1.00	34.12	O
ATOM	8850	CB	GLU	C	292	1.472	76.494	15.528	1.00	37.90	C
ATOM	8851	CG	GLU	C	292	0.677	76.917	14.298	1.00	43.68	C
ATOM	8852	CD	GLU	C	292	0.027	75.729	13.594	1.00	46.72	C
ATOM	8853	OE1	GLU	C	292	0.771	74.808	13.169	1.00	48.13	O
ATOM	8854	OE2	GLU	C	292	-1.223	75.716	13.463	1.00	48.71	O
ATOM	8855	N	ALA	C	293	2.015	74.216	17.591	1.00	32.75	N
ATOM	8856	CA	ALA	C	293	2.423	72.866	17.972	1.00	31.35	C
ATOM	8857	C	ALA	C	293	1.389	72.316	18.954	1.00	30.82	C
ATOM	8858	O	ALA	C	293	1.033	71.140	18.910	1.00	30.04	O
ATOM	8859	CB	ALA	C	293	3.793	72.890	18.620	1.00	30.91	C
ATOM	8860	N	ALA	C	294	0.903	73.169	19.846	1.00	29.08	N
ATOM	8861	CA	ALA	C	294	-0.105	72.725	20.778	1.00	29.15	C
ATOM	8862	C	ALA	C	294	-1.317	72.232	20.008	1.00	29.92	C
ATOM	8863	O	ALA	C	294	-1.868	71.163	20.306	1.00	29.08	O
ATOM	8864	CB	ALA	C	294	-0.515	73.854	21.703	1.00	27.47	C
ATOM	8865	N	ARG	C	295	-1.745	73.017	19.019	1.00	30.77	N
ATOM	8866	CA	ARG	C	295	-2.923	72.669	18.225	1.00	30.66	C
ATOM	8867	C	ARG	C	295	-2.696	71.377	17.459	1.00	30.18	C
ATOM	8868	O	ARG	C	295	-3.603	70.547	17.341	1.00	29.63	O
ATOM	8869	CB	ARG	C	295	-3.271	73.795	17.238	1.00	33.27	C
ATOM	8870	CG	ARG	C	295	-4.598	73.580	16.507	1.00	35.19	C
ATOM	8871	CD	ARG	C	295	-4.607	74.378	15.216	1.00	40.24	C
ATOM	8872	NE	ARG	C	295	-4.203	75.770	15.432	1.00	43.88	N
ATOM	8873	CZ	ARG	C	295	-4.926	76.670	16.107	1.00	46.59	C

6-119/7



ATOM	8874	NH1	ARG	C	295	-6.104	76.331	16.641	1.00	47.11	N
ATOM	8875	NH2	ARG	C	295	-4.472	77.912	16.256	1.00	46.18	N
ATOM	8876	N	GLN	C	296	-1.494	71.211	16.921	1.00	29.36	N
ATOM	8877	CA	GLN	C	296	-1.177	69.994	16.191	1.00	30.88	C
ATOM	8878	C	GLN	C	296	-1.320	68.723	17.058	1.00	30.25	C
ATOM	8879	O	GLN	C	296	-1.878	67.715	16.622	1.00	29.33	O
ATOM	8880	CB	GLN	C	296	0.231	70.084	15.639	1.00	31.02	C
ATOM	8881	CG	GLN	C	296	0.633	68.823	14.933	1.00	36.70	C
ATOM	8882	CD	GLN	C	296	1.976	68.936	14.236	1.00	38.30	C
ATOM	8883	OE1	GLN	C	296	2.592	70.008	14.209	1.00	39.93	O
ATOM	8884	NE2	GLN	C	296	2.439	67.820	13.663	1.00	38.97	N
ATOM	8885	N	PHE	C	297	-0.798	68.782	18.279	1.00	29.45	N
ATOM	8886	CA	PHE	C	297	-0.882	67.668	19.223	1.00	27.92	C
ATOM	8887	C	PHE	C	297	-2.349	67.443	19.607	1.00	29.30	C
ATOM	8888	O	PHE	C	297	-2.879	66.326	19.543	1.00	28.77	O
ATOM	8889	CB	PHE	C	297	-0.065	68.027	20.465	1.00	26.49	C
ATOM	8890	CG	PHE	C	297	-0.161	67.022	21.567	1.00	26.87	C
ATOM	8891	CD1	PHE	C	297	0.432	65.758	21.434	1.00	24.61	C
ATOM	8892	CD2	PHE	C	297	-0.865	67.320	22.730	1.00	23.75	C
ATOM	8893	CE1	PHE	C	297	0.317	64.822	22.437	1.00	25.10	C
ATOM	8894	CE2	PHE	C	297	-0.980	66.382	23.742	1.00	26.06	C
ATOM	8895	CZ	PHE	C	297	-0.383	65.119	23.589	1.00	22.56	C
ATOM	8896	N	SER	C	298	-3.010	68.517	20.020	1.00	29.03	N
ATOM	8897	CA	SER	C	298	-4.404	68.452	20.410	1.00	30.69	C
ATOM	8898	C	SER	C	298	-5.316	67.813	19.344	1.00	30.33	C
ATOM	8899	O	SER	C	298	-6.069	66.862	19.636	1.00	30.82	O
ATOM	8900	CB	SER	C	298	-4.898	69.862	20.752	1.00	32.23	C
ATOM	8901	OG	SER	C	298	-6.263	69.841	21.107	1.00	34.09	O
ATOM	8902	N	GLU	C	299	-5.257	68.327	18.118	1.00	30.60	N
ATOM	8903	CA	GLU	C	299	-6.090	67.790	17.016	1.00	31.66	C
ATOM	8904	C	GLU	C	299	-5.781	66.320	16.744	1.00	30.34	C
ATOM	8905	O	GLU	C	299	-6.675	65.492	16.598	1.00	30.08	O
ATOM	8906	CB	GLU	C	299	-5.880	68.605	15.732	1.00	31.73	C
ATOM	8907	CG	GLU	C	299	-6.701	69.901	15.719	1.00	36.13	C
ATOM	8908	CD	GLU	C	299	-6.397	70.803	14.527	1.00	38.88	C
ATOM	8909	OE1	GLU	C	299	-5.885	70.305	13.493	1.00	40.79	O
ATOM	8910	OE2	GLU	C	299	-6.685	72.014	14.626	1.00	39.99	O
ATOM	8911	N	ALA	C	300	-4.499	66.010	16.666	1.00	30.73	N
ATOM	8912	CA	ALA	C	300	-4.095	64.639	16.442	1.00	30.70	C
ATOM	8913	C	ALA	C	300	-4.676	63.701	17.521	1.00	30.46	C
ATOM	8914	O	ALA	C	300	-5.265	62.664	17.195	1.00	30.67	O
ATOM	8915	CB	ALA	C	300	-2.559	64.561	16.384	1.00	30.35	C
ATOM	8916	N	VAL	C	301	-4.554	64.049	18.802	1.00	29.28	N
ATOM	8917	CA	VAL	C	301	-5.100	63.166	19.841	1.00	29.70	C
ATOM	8918	C	VAL	C	301	-6.635	63.067	19.856	1.00	30.78	C
ATOM	8919	O	VAL	C	301	-7.199	61.968	19.967	1.00	28.83	O
ATOM	8920	CB	VAL	C	301	-4.618	63.554	21.282	1.00	28.39	C
ATOM	8921	CG1	VAL	C	301	-5.318	62.683	22.309	1.00	29.22	C
ATOM	8922	CG2	VAL	C	301	-3.120	63.335	21.415	1.00	27.86	C
ATOM	8923	N	LYS	C	302	-7.305	64.208	19.733	1.00	31.73	N
ATOM	8924	CA	LYS	C	302	-8.759	64.220	19.768	1.00	33.75	C
ATOM	8925	C	LYS	C	302	-9.405	63.520	18.571	1.00	34.90	C
ATOM	8926	O	LYS	C	302	-10.567	63.104	18.650	1.00	36.70	O
ATOM	8927	CB	LYS	C	302	-9.274	65.654	19.902	1.00	33.84	C
ATOM	8928	CG	LYS	C	302	-9.124	66.216	21.314	1.00	33.74	C
ATOM	8929	CD	LYS	C	302	-9.636	67.651	21.401	1.00	33.80	C
ATOM	8930	CE	LYS	C	302	-9.490	68.214	22.804	1.00	32.48	C
ATOM	8931	NZ	LYS	C	302	-10.378	67.513	23.771	1.00	31.64	N
ATOM	8932	N	ALA	C	303	-8.646	63.372	17.484	1.00	34.94	N
ATOM	8933	CA	ALA	C	303	-9.130	62.692	16.292	1.00	35.17	C
ATOM	8934	C	ALA	C	303	-9.539	61.260	16.651	1.00	36.37	C
ATOM	8935	O	ALA	C	303	-10.458	60.697	16.059	1.00	35.91	O
ATOM	8936	CB	ALA	C	303	-8.062	62.674	15.245	1.00	32.70	C
ATOM	8937	N	GLU	C	304	-8.850	60.683	17.630	1.00	36.20	N
ATOM	8938	CA	GLU	C	304	-9.139	59.334	18.084	1.00	37.61	C
ATOM	8939	C	GLU	C	304	-9.861	59.295	19.428	1.00	36.50	C
ATOM	8940	O	GLU	C	304	-10.611	58.363	19.717	1.00	36.26	O
ATOM	8941	CB	GLU	C	304	-7.843	58.527	18.170	1.00	40.93	C
ATOM	8942	CG	GLU	C	304	-7.578	57.681	16.934	1.00	45.71	C
ATOM	8943	CD	GLU	C	304	-6.360	56.811	17.095	1.00	48.27	C
ATOM	8944	OE1	GLU	C	304	-6.249	56.144	18.144	1.00	50.43	O
ATOM	8945	OE2	GLU	C	304	-5.511	56.791	16.174	1.00	50.88	O
ATOM	8946	N	TYR	C	305	-9.632	60.306	20.256	1.00	34.92	N
ATOM	8947	CA	TYR	C	305	-10.262	60.377	21.570	1.00	33.86	C
ATOM	8948	C	TYR	C	305	-10.766	61.800	21.698	1.00	34.32	C
ATOM	8949	O	TYR	C	305	-10.135	62.641	22.339	1.00	32.82	O
ATOM	8950	CB	TYR	C	305	-9.239	60.091	22.667	1.00	32.72	C
ATOM	8951	CG	TYR	C	305	-8.640	58.710	22.577	1.00	32.00	C
ATOM	8952	CD1	TYR	C	305	-9.324	57.603	23.079	1.00	31.58	C
ATOM	8953	CD2	TYR	C	305	-7.413	58.504	21.942	1.00	30.73	C

6-120/7



ATOM	8954	CE1	TYR	C	305	-8.813	56.320	22.947	1.00	33.76	C
ATOM	8955	CE2	TYR	C	305	-6.880	57.210	21.803	1.00	32.02	C
ATOM	8956	CZ	TYR	C	305	-7.586	56.133	22.304	1.00	31.38	C
ATOM	8957	OH	TYR	C	305	-7.089	54.863	22.166	1.00	34.15	O
ATOM	8958	N	PRO	C	306	-11.913	62.087	21.067	1.00	34.56	N
ATOM	8959	CA	PRO	C	306	-12.492	63.425	21.107	1.00	34.54	C
ATOM	8960	C	PRO	C	306	-12.745	64.021	22.481	1.00	34.35	C
ATOM	8961	O	PRO	C	306	-12.600	65.225	22.638	1.00	35.04	O
ATOM	8962	CB	PRO	C	306	-13.763	63.287	20.247	1.00	34.79	C
ATOM	8963	CG	PRO	C	306	-14.107	61.833	20.327	1.00	35.00	C
ATOM	8964	CD	PRO	C	306	-12.757	61.155	20.297	1.00	33.68	C
ATOM	8965	N	ASP	C	307	-13.098	63.209	23.479	1.00	34.11	N
ATOM	8966	CA	ASP	C	307	-13.358	63.759	24.817	1.00	34.10	C
ATOM	8967	C	ASP	C	307	-12.123	63.848	25.724	1.00	33.10	C
ATOM	8968	O	ASP	C	307	-12.229	64.285	26.864	1.00	33.32	O
ATOM	8969	CB	ASP	C	307	-14.424	62.935	25.542	1.00	36.03	C
ATOM	8970	CG	ASP	C	307	-15.730	62.877	24.789	1.00	37.15	C
ATOM	8971	OD1	ASP	C	307	-16.163	63.930	24.290	1.00	37.83	O
ATOM	8972	OD2	ASP	C	307	-16.323	61.778	24.706	1.00	40.25	O
ATOM	8973	N	GLN	C	308	-10.963	63.422	25.227	1.00	32.22	N
ATOM	8974	CA	GLN	C	308	-9.723	63.442	26.012	1.00	29.50	C
ATOM	8975	C	GLN	C	308	-9.288	64.845	26.415	1.00	28.45	C
ATOM	8976	O	GLN	C	308	-9.045	65.709	25.566	1.00	28.39	O
ATOM	8977	CB	GLN	C	308	-8.601	62.770	25.224	1.00	28.05	C
ATOM	8978	CG	GLN	C	308	-7.275	62.684	25.968	1.00	27.71	C
ATOM	8979	CD	GLN	C	308	-7.374	61.927	27.279	1.00	24.65	C
ATOM	8980	OE1	GLN	C	308	-7.213	62.507	28.355	1.00	25.34	O
ATOM	8981	NE2	GLN	C	308	-7.628	60.634	27.201	1.00	21.70	N
ATOM	8982	N	MET	C	309	-9.175	65.074	27.718	1.00	28.04	N
ATOM	8983	CA	MET	C	309	-8.745	66.379	28.196	1.00	27.92	C
ATOM	8984	C	MET	C	309	-7.227	66.431	28.185	1.00	27.45	C
ATOM	8985	O	MET	C	309	-6.559	65.405	28.359	1.00	25.80	O
ATOM	8986	CB	MET	C	309	-9.270	66.654	29.607	1.00	29.09	C
ATOM	8987	CG	MET	C	309	-10.754	66.984	29.671	1.00	29.59	C
ATOM	8988	SD	MET	C	309	-11.266	67.553	31.325	1.00	31.68	S
ATOM	8989	CE	MET	C	309	-11.598	66.029	32.130	1.00	32.44	C
ATOM	8990	N	LEU	C	310	-6.690	67.620	27.949	1.00	25.53	N
ATOM	8991	CA	LEU	C	310	-5.244	67.797	27.887	1.00	26.09	C
ATOM	8992	C	LEU	C	310	-4.719	68.741	28.982	1.00	25.47	C
ATOM	8993	O	LEU	C	310	-5.476	69.489	29.599	1.00	25.64	O
ATOM	8994	CB	LEU	C	310	-4.850	68.351	26.518	1.00	24.56	C
ATOM	8995	CG	LEU	C	310	-5.471	67.642	25.301	1.00	25.80	C
ATOM	8996	CD1	LEU	C	310	-5.089	68.390	24.041	1.00	26.15	C
ATOM	8997	CD2	LEU	C	310	-5.010	66.188	25.225	1.00	22.64	C
ATOM	8998	N	ALA	C	311	-3.418	68.706	29.224	1.00	23.70	N
ATOM	8999	CA	ALA	C	311	-2.831	69.579	30.236	1.00	22.90	C
ATOM	9000	C	ALA	C	311	-1.635	70.258	29.577	1.00	21.68	C
ATOM	9001	O	ALA	C	311	-1.017	69.670	28.703	1.00	24.18	O
ATOM	9002	CB	ALA	C	311	-2.406	68.742	31.458	1.00	20.28	C
ATOM	9003	N	TYR	C	312	-1.312	71.488	29.979	1.00	22.19	N
ATOM	9004	CA	TYR	C	312	-0.192	72.204	29.381	1.00	20.54	C
ATOM	9005	C	TYR	C	312	0.671	72.969	30.404	1.00	21.26	C
ATOM	9006	O	TYR	C	312	0.165	73.695	31.269	1.00	19.65	O
ATOM	9007	CB	TYR	C	312	-0.715	73.168	28.280	1.00	21.66	C
ATOM	9008	CG	TYR	C	312	0.368	73.725	27.399	1.00	21.24	C
ATOM	9009	CD1	TYR	C	312	1.210	74.744	27.848	1.00	23.15	C
ATOM	9010	CD2	TYR	C	312	0.560	73.228	26.116	1.00	21.67	C
ATOM	9011	CE1	TYR	C	312	2.223	75.250	27.028	1.00	22.67	C
ATOM	9012	CE2	TYR	C	312	1.556	73.721	25.294	1.00	23.18	C
ATOM	9013	CZ	TYR	C	312	2.386	74.730	25.755	1.00	25.11	C
ATOM	9014	OH	TYR	C	312	3.411	75.164	24.951	1.00	23.20	O
ATOM	9015	N	ASN	C	313	1.977	72.791	30.277	1.00	21.95	N
ATOM	9016	CA	ASN	C	313	2.955	73.416	31.147	1.00	23.18	C
ATOM	9017	C	ASN	C	313	3.494	74.742	30.590	1.00	23.34	C
ATOM	9018	O	ASN	C	313	4.322	74.752	29.684	1.00	23.66	O
ATOM	9019	CB	ASN	C	313	4.118	72.449	31.375	1.00	24.83	C
ATOM	9020	CG	ASN	C	313	5.274	73.087	32.107	1.00	25.20	C
ATOM	9021	OD1	ASN	C	313	5.117	74.146	32.691	1.00	27.08	O
ATOM	9022	ND2	ASN	C	313	6.453	72.434	32.082	1.00	26.30	N
ATOM	9023	N	CYS	C	314	2.999	75.858	31.120	1.00	23.17	N
ATOM	9024	CA	CYS	C	314	3.488	77.181	30.680	1.00	24.09	C
ATOM	9025	C	CYS	C	314	4.740	77.360	31.526	1.00	24.07	C
ATOM	9026	O	CYS	C	314	4.739	78.055	32.532	1.00	23.37	O
ATOM	9027	CB	CYS	C	314	2.450	78.266	31.012	1.00	24.24	C
ATOM	9028	SG	CYS	C	314	0.764	78.005	30.297	1.00	26.14	S
ATOM	9029	N	SER	C	315	5.814	76.717	31.100	1.00	25.60	N
ATOM	9030	CA	SER	C	315	7.055	76.697	31.861	1.00	25.35	C
ATOM	9031	C	SER	C	315	7.899	77.932	32.003	1.00	25.46	C
ATOM	9032	O	SER	C	315	8.087	78.665	31.041	1.00	23.79	O
ATOM	9033	CB	SER	C	315	7.960	75.616	31.310	1.00	25.17	C



ATOM	9034	OG	SER	C	315	9.191	75.582	32.009	1.00	27.49	O
ATOM	9035	N	PRO	C	316	8.387	78.198	33.230	1.00	25.49	N
ATOM	9036	CA	PRO	C	316	9.252	79.368	33.433	1.00	25.65	C
ATOM	9037	C	PRO	C	316	10.581	79.015	32.764	1.00	25.47	C
ATOM	9038	O	PRO	C	316	11.470	79.851	32.666	1.00	25.48	O
ATOM	9039	CB	PRO	C	316	9.386	79.443	34.948	1.00	25.00	C
ATOM	9040	CG	PRO	C	316	7.996	79.026	35.397	1.00	26.12	C
ATOM	9041	CD	PRO	C	316	7.795	77.777	34.517	1.00	25.63	C
ATOM	9042	N	SER	C	317	10.702	77.769	32.294	1.00	25.17	N
ATOM	9043	CA	SER	C	317	11.923	77.323	31.620	1.00	24.78	C
ATOM	9044	C	SER	C	317	11.977	77.878	30.192	1.00	25.56	C
ATOM	9045	O	SER	C	317	12.951	77.659	29.487	1.00	24.67	O
ATOM	9046	CB	SER	C	317	12.006	75.794	31.566	1.00	25.42	C
ATOM	9047	OG	SER	C	317	12.408	75.261	32.816	1.00	27.84	O
ATOM	9048	N	PHE	C	318	10.913	78.569	29.775	1.00	26.07	N
ATOM	9049	CA	PHE	C	318	10.902	79.207	28.447	1.00	28.32	C
ATOM	9050	C	PHE	C	318	11.233	80.689	28.644	1.00	29.73	C
ATOM	9051	O	PHE	C	318	10.887	81.260	29.677	1.00	30.38	O
ATOM	9052	CB	PHE	C	318	9.516	79.142	27.805	1.00	27.32	C
ATOM	9053	CG	PHE	C	318	9.015	77.750	27.567	1.00	25.70	C
ATOM	9054	CD1	PHE	C	318	9.842	76.788	27.011	1.00	24.86	C
ATOM	9055	CD2	PHE	C	318	7.680	77.422	27.842	1.00	27.61	C
ATOM	9056	CE1	PHE	C	318	9.350	75.502	26.725	1.00	26.69	C
ATOM	9057	CE2	PHE	C	318	7.175	76.139	27.556	1.00	27.53	C
ATOM	9058	CZ	PHE	C	318	8.014	75.181	26.996	1.00	26.91	C
ATOM	9059	N	ASN	C	319	11.917	81.304	27.679	1.00	31.93	N
ATOM	9060	CA	ASN	C	319	12.179	82.746	27.741	1.00	32.13	C
ATOM	9061	C	ASN	C	319	10.986	83.276	26.957	1.00	33.09	C
ATOM	9062	O	ASN	C	319	11.028	83.399	25.736	1.00	34.26	O
ATOM	9063	CB	ASN	C	319	13.489	83.089	27.039	1.00	32.44	C
ATOM	9064	CG	ASN	C	319	13.826	84.583	27.129	1.00	32.87	C
ATOM	9065	OD1	ASN	C	319	14.989	84.969	27.040	1.00	33.56	O
ATOM	9066	ND2	ASN	C	319	12.808	85.418	27.299	1.00	31.59	N
ATOM	9067	N	TRP	C	320	9.907	83.587	27.666	1.00	34.40	N
ATOM	9068	CA	TRP	C	320	8.673	83.996	27.019	1.00	34.49	C
ATOM	9069	C	TRP	C	320	8.691	85.112	25.983	1.00	36.25	C
ATOM	9070	O	TRP	C	320	8.276	84.880	24.844	1.00	35.81	O
ATOM	9071	CB	TRP	C	320	7.582	84.253	28.070	1.00	33.59	C
ATOM	9072	CG	TRP	C	320	7.162	82.970	28.729	1.00	33.50	C
ATOM	9073	CD1	TRP	C	320	7.841	82.285	29.705	1.00	33.77	C
ATOM	9074	CD2	TRP	C	320	6.017	82.165	28.400	1.00	32.16	C
ATOM	9075	NE1	TRP	C	320	7.191	81.111	30.001	1.00	32.71	N
ATOM	9076	CE2	TRP	C	320	6.071	81.007	29.219	1.00	32.36	C
ATOM	9077	CE3	TRP	C	320	4.952	82.310	27.499	1.00	30.73	C
ATOM	9078	CZ2	TRP	C	320	5.096	79.994	29.161	1.00	31.78	C
ATOM	9079	CZ3	TRP	C	320	3.985	81.315	27.441	1.00	30.38	C
ATOM	9080	CH2	TRP	C	320	4.064	80.164	28.271	1.00	31.00	C
ATOM	9081	N	LYS	C	321	9.184	86.300	26.329	1.00	37.34	N
ATOM	9082	CA	LYS	C	321	9.168	87.374	25.339	1.00	38.97	C
ATOM	9083	C	LYS	C	321	10.082	87.109	24.163	1.00	40.07	C
ATOM	9084	O	LYS	C	321	9.888	87.677	23.087	1.00	41.24	O
ATOM	9085	CB	LYS	C	321	9.482	88.728	25.990	1.00	39.20	C
ATOM	9086	CG	LYS	C	321	8.283	89.294	26.773	1.00	40.07	C
ATOM	9087	CD	LYS	C	321	8.620	90.584	27.502	1.00	41.07	C
ATOM	9088	CE	LYS	C	321	8.917	91.721	26.537	1.00	41.36	C
ATOM	9089	NZ	LYS	C	321	7.699	92.096	25.773	1.00	42.00	N
ATOM	9090	N	LYS	C	322	11.072	86.241	24.340	1.00	41.18	N
ATOM	9091	CA	LYS	C	322	11.962	85.938	23.230	1.00	41.53	C
ATOM	9092	C	LYS	C	322	11.230	85.144	22.131	1.00	41.77	C
ATOM	9093	O	LYS	C	322	11.694	85.058	20.995	1.00	41.07	O
ATOM	9094	CB	LYS	C	322	13.171	85.144	23.721	1.00	42.38	C
ATOM	9095	CG	LYS	C	322	13.890	84.362	22.619	1.00	42.96	C
ATOM	9096	CD	LYS	C	322	15.181	83.711	23.122	1.00	45.25	C
ATOM	9097	CE	LYS	C	322	15.874	82.928	22.014	1.00	45.60	C
ATOM	9098	NZ	LYS	C	322	17.220	82.405	22.416	1.00	47.30	N
ATOM	9099	N	HIS	C	323	10.075	84.581	22.467	1.00	42.61	N
ATOM	9100	CA	HIS	C	323	9.318	83.770	21.512	1.00	43.35	C
ATOM	9101	C	HIS	C	323	8.006	84.377	21.085	1.00	42.22	C
ATOM	9102	O	HIS	C	323	7.644	84.346	19.915	1.00	42.50	O
ATOM	9103	CB	HIS	C	323	9.018	82.395	22.118	1.00	44.62	C
ATOM	9104	CG	HIS	C	323	10.238	81.573	22.368	1.00	47.08	C
ATOM	9105	ND1	HIS	C	323	10.827	80.803	21.389	1.00	48.16	N
ATOM	9106	CD2	HIS	C	323	11.025	81.457	23.464	1.00	48.50	C
ATOM	9107	CE1	HIS	C	323	11.927	80.251	21.868	1.00	49.33	C
ATOM	9108	NE2	HIS	C	323	12.071	80.632	23.126	1.00	50.05	N
ATOM	9109	N	LEU	C	324	7.289	84.911	22.055	1.00	41.26	N
ATOM	9110	CA	LEU	C	324	5.985	85.471	21.807	1.00	40.74	C
ATOM	9111	C	LEU	C	324	5.940	86.974	21.988	1.00	41.70	C
ATOM	9112	O	LEU	C	324	6.813	87.552	22.639	1.00	41.36	O
ATOM	9113	CB	LEU	C	324	4.990	84.802	22.754	1.00	40.61	C



ATOM	9114	CG	LEU	C	324	4.901	83.274	22.637	1.00	38.22	C
ATOM	9115	CD1	LEU	C	324	3.926	82.728	23.680	1.00	38.59	C
ATOM	9116	CD2	LEU	C	324	4.427	82.895	21.240	1.00	37.91	C
ATOM	9117	N	ASP	C	325	4.926	87.598	21.388	1.00	42.13	N
ATOM	9118	CA	ASP	C	325	4.725	89.038	21.520	1.00	42.57	C
ATOM	9119	C	ASP	C	325	3.630	89.198	22.571	1.00	41.39	C
ATOM	9120	O	ASP	C	325	2.922	88.234	22.887	1.00	41.20	O
ATOM	9121	CB	ASP	C	325	4.315	89.671	20.173	1.00	44.35	C
ATOM	9122	CG	ASP	C	325	2.961	89.171	19.646	1.00	45.96	C
ATOM	9123	OD1	ASP	C	325	2.240	88.418	20.346	1.00	46.49	O
ATOM	9124	OD2	ASP	C	325	2.612	89.549	18.501	1.00	47.93	O
ATOM	9125	N	ASP	C	326	3.478	90.398	23.109	1.00	40.24	N
ATOM	9126	CA	ASP	C	326	2.491	90.637	24.157	1.00	38.76	C
ATOM	9127	C	ASP	C	326	1.071	90.142	23.915	1.00	37.79	C
ATOM	9128	O	ASP	C	326	0.441	89.579	24.818	1.00	36.72	O
ATOM	9129	CB	ASP	C	326	2.458	92.128	24.490	1.00	39.81	C
ATOM	9130	CG	ASP	C	326	3.587	92.541	25.412	1.00	41.16	C
ATOM	9131	OD1	ASP	C	326	4.540	91.741	25.581	1.00	41.46	O
ATOM	9132	OD2	ASP	C	326	3.520	93.667	25.970	1.00	41.62	O
ATOM	9133	N	ALA	C	327	0.559	90.353	22.702	1.00	36.97	N
ATOM	9134	CA	ALA	C	327	-0.812	89.950	22.371	1.00	35.54	C
ATOM	9135	C	ALA	C	327	-1.039	88.442	22.505	1.00	34.39	C
ATOM	9136	O	ALA	C	327	-2.052	87.996	23.059	1.00	34.17	O
ATOM	9137	CB	ALA	C	327	-1.166	90.414	20.945	1.00	36.10	C
ATOM	9138	N	THR	C	328	-0.090	87.661	22.006	1.00	33.63	N
ATOM	9139	CA	THR	C	328	-0.203	86.204	22.077	1.00	33.22	C
ATOM	9140	C	THR	C	328	-0.022	85.749	23.535	1.00	32.90	C
ATOM	9141	O	THR	C	328	-0.754	84.887	24.034	1.00	31.53	O
ATOM	9142	CB	THR	C	328	0.866	85.520	21.183	1.00	33.72	C
ATOM	9143	OG1	THR	C	328	0.875	86.139	19.887	1.00	32.92	O
ATOM	9144	CG2	THR	C	328	0.539	84.048	21.002	1.00	30.19	C
ATOM	9145	N	ILE	C	329	0.949	86.343	24.218	1.00	33.11	N
ATOM	9146	CA	ILE	C	329	1.184	86.001	25.613	1.00	32.75	C
ATOM	9147	C	ILE	C	329	-0.131	86.207	26.350	1.00	33.78	C
ATOM	9148	O	ILE	C	329	-0.565	85.356	27.133	1.00	34.19	O
ATOM	9149	CB	ILE	C	329	2.306	86.883	26.189	1.00	32.46	C
ATOM	9150	CG1	ILE	C	329	3.635	86.462	25.548	1.00	31.51	C
ATOM	9151	CG2	ILE	C	329	2.341	86.807	27.734	1.00	34.39	C
ATOM	9152	CD1	ILE	C	329	4.813	87.286	25.978	1.00	29.03	C
ATOM	9153	N	ALA	C	330	-0.793	87.323	26.064	1.00	32.63	N
ATOM	9154	CA	ALA	C	330	-2.068	87.633	26.701	1.00	31.84	C
ATOM	9155	C	ALA	C	330	-3.188	86.629	26.442	1.00	30.32	C
ATOM	9156	O	ALA	C	330	-4.017	86.381	27.326	1.00	29.97	O
ATOM	9157	CB	ALA	C	330	-2.534	89.038	26.273	1.00	33.25	C
ATOM	9158	N	LYS	C	331	-3.247	86.064	25.241	1.00	30.05	N
ATOM	9159	CA	LYS	C	331	-4.331	85.127	24.938	1.00	31.28	C
ATOM	9160	C	LYS	C	331	-3.867	83.679	24.995	1.00	30.84	C
ATOM	9161	O	LYS	C	331	-4.661	82.766	24.757	1.00	31.06	O
ATOM	9162	CB	LYS	C	331	-4.943	85.391	23.551	1.00	31.87	C
ATOM	9163	CG	LYS	C	331	-4.063	84.977	22.369	1.00	35.81	C
ATOM	9164	CD	LYS	C	331	-4.812	85.100	21.012	1.00	38.48	C
ATOM	9165	CE	LYS	C	331	-3.905	84.752	19.816	1.00	40.19	C
ATOM	9166	NZ	LYS	C	331	-4.525	85.164	18.515	1.00	41.40	N
ATOM	9167	N	PHE	C	332	-2.596	83.483	25.328	1.00	30.76	N
ATOM	9168	CA	PHE	C	332	-2.029	82.138	25.390	1.00	31.17	C
ATOM	9169	C	PHE	C	332	-2.933	81.075	26.020	1.00	29.16	C
ATOM	9170	O	PHE	C	332	-3.373	80.152	25.334	1.00	28.69	O
ATOM	9171	CB	PHE	C	332	-0.691	82.160	26.119	1.00	30.76	C
ATOM	9172	CG	PHE	C	332	0.201	81.020	25.755	1.00	33.46	C
ATOM	9173	CD1	PHE	C	332	0.866	81.005	24.524	1.00	32.78	C
ATOM	9174	CD2	PHE	C	332	0.361	79.941	26.629	1.00	32.48	C
ATOM	9175	CE1	PHE	C	332	1.678	79.944	24.156	1.00	35.04	C
ATOM	9176	CE2	PHE	C	332	1.173	78.855	26.277	1.00	33.43	C
ATOM	9177	CZ	PHE	C	332	1.837	78.855	25.035	1.00	35.05	C
ATOM	9178	N	GLN	C	333	-3.209	81.193	27.314	1.00	29.09	N
ATOM	9179	CA	GLN	C	333	-4.048	80.192	27.979	1.00	28.70	C
ATOM	9180	C	GLN	C	333	-5.477	80.087	27.427	1.00	30.09	C
ATOM	9181	O	GLN	C	333	-6.032	78.981	27.328	1.00	28.63	O
ATOM	9182	CB	GLN	C	333	-4.111	80.433	29.494	1.00	27.22	C
ATOM	9183	CG	GLN	C	333	-2.769	80.367	30.188	1.00	24.27	C
ATOM	9184	CD	GLN	C	333	-2.880	79.975	31.650	1.00	25.86	C
ATOM	9185	OE1	GLN	C	333	-3.953	80.079	32.263	1.00	23.98	O
ATOM	9186	NE2	GLN	C	333	-1.753	79.530	32.233	1.00	23.69	N
ATOM	9187	N	LYS	C	334	-6.092	81.223	27.092	1.00	30.23	N
ATOM	9188	CA	LYS	C	334	-7.463	81.187	26.551	1.00	32.14	C
ATOM	9189	C	LYS	C	334	-7.507	80.351	25.268	1.00	31.05	C
ATOM	9190	O	LYS	C	334	-8.437	79.566	25.044	1.00	31.42	O
ATOM	9191	CB	LYS	C	334	-7.983	82.611	26.264	1.00	33.77	C
ATOM	9192	CG	LYS	C	334	-9.468	82.642	25.894	1.00	37.64	C
ATOM	9193	CD	LYS	C	334	-10.081	84.065	26.034	1.00	40.23	C



ATOM	9194	CE	LYS	C	334	-11.567	84.089	25.624	1.00	40.44	C
ATOM	9195	NZ	LYS	C	334	-12.448	83.239	26.490	1.00	41.69	N
ATOM	9196	N	GLU	C	335	-6.492	80.525	24.436	1.00	31.35	N
ATOM	9197	CA	GLU	C	335	-6.392	79.782	23.187	1.00	33.87	C
ATOM	9198	C	GLU	C	335	-6.219	78.283	23.463	1.00	32.85	C
ATOM	9199	O	GLU	C	335	-6.931	77.420	22.913	1.00	31.49	O
ATOM	9200	CB	GLU	C	335	-5.190	80.290	22.400	1.00	35.43	C
ATOM	9201	CG	GLU	C	335	-5.401	81.683	21.876	1.00	40.33	C
ATOM	9202	CD	GLU	C	335	-6.479	81.717	20.807	1.00	43.55	C
ATOM	9203	OE1	GLU	C	335	-6.138	81.477	19.633	1.00	46.07	O
ATOM	9204	OE2	GLU	C	335	-7.665	81.960	21.141	1.00	45.50	O
ATOM	9205	N	LEU	C	336	-5.256	77.982	24.326	1.00	31.59	N
ATOM	9206	CA	LEU	C	336	-4.980	76.597	24.649	1.00	30.28	C
ATOM	9207	C	LEU	C	336	-6.251	75.936	25.158	1.00	29.17	C
ATOM	9208	O	LEU	C	336	-6.568	74.782	24.803	1.00	29.95	O
ATOM	9209	CB	LEU	C	336	-3.835	76.519	25.688	1.00	30.16	C
ATOM	9210	CG	LEU	C	336	-2.390	76.812	25.242	1.00	29.33	C
ATOM	9211	CD1	LEU	C	336	-1.422	76.629	26.438	1.00	30.54	C
ATOM	9212	CD2	LEU	C	336	-1.999	75.851	24.136	1.00	29.13	C
ATOM	9213	N	ALA	C	337	-6.989	76.664	25.984	1.00	29.01	N
ATOM	9214	CA	ALA	C	337	-8.224	76.132	26.536	1.00	30.39	C
ATOM	9215	C	ALA	C	337	-9.173	75.692	25.425	1.00	30.75	C
ATOM	9216	O	ALA	C	337	-9.839	74.672	25.538	1.00	31.07	O
ATOM	9217	CB	ALA	C	337	-8.918	77.192	27.425	1.00	30.21	C
ATOM	9218	N	ALA	C	338	-9.250	76.486	24.366	1.00	32.00	N
ATOM	9219	CA	ALA	C	338	-10.163	76.177	23.261	1.00	32.83	C
ATOM	9220	C	ALA	C	338	-9.762	74.891	22.551	1.00	33.18	C
ATOM	9221	O	ALA	C	338	-10.583	74.214	21.922	1.00	30.97	O
ATOM	9222	CB	ALA	C	338	-10.185	77.330	22.282	1.00	32.64	C
ATOM	9223	N	MET	C	339	-8.485	74.572	22.649	1.00	32.67	N
ATOM	9224	CA	MET	C	339	-7.967	73.378	22.038	1.00	33.89	C
ATOM	9225	C	MET	C	339	-8.229	72.159	22.898	1.00	33.45	C
ATOM	9226	O	MET	C	339	-8.111	71.036	22.428	1.00	33.30	O
ATOM	9227	CB	MET	C	339	-6.484	73.526	21.802	1.00	34.09	C
ATOM	9228	CG	MET	C	339	-6.157	74.461	20.684	1.00	35.77	C
ATOM	9229	SD	MET	C	339	-4.428	74.773	20.749	1.00	39.47	S
ATOM	9230	CE	MET	C	339	-4.433	76.600	20.843	1.00	39.45	C
ATOM	9231	N	GLY	C	340	-8.582	72.378	24.159	1.00	32.42	N
ATOM	9232	CA	GLY	C	340	-8.875	71.251	25.025	1.00	30.45	C
ATOM	9233	C	GLY	C	340	-7.911	71.087	26.182	1.00	29.60	C
ATOM	9234	O	GLY	C	340	-8.015	70.091	26.885	1.00	28.54	O
ATOM	9235	N	PHE	C	341	-6.984	72.040	26.364	1.00	27.38	N
ATOM	9236	CA	PHE	C	341	-6.017	72.017	27.483	1.00	28.14	C
ATOM	9237	C	PHE	C	341	-6.785	72.619	28.630	1.00	26.65	C
ATOM	9238	O	PHE	C	341	-6.881	73.841	28.746	1.00	26.29	O
ATOM	9239	CB	PHE	C	341	-4.773	72.853	27.136	1.00	27.20	C
ATOM	9240	CG	PHE	C	341	-3.984	72.269	26.010	1.00	28.31	C
ATOM	9241	CD1	PHE	C	341	-3.199	71.140	26.215	1.00	28.81	C
ATOM	9242	CD2	PHE	C	341	-4.130	72.757	24.707	1.00	29.17	C
ATOM	9243	CE1	PHE	C	341	-2.575	70.492	25.136	1.00	27.62	C
ATOM	9244	CE2	PHE	C	341	-3.518	72.122	23.633	1.00	28.08	C
ATOM	9245	CZ	PHE	C	341	-2.739	70.982	23.847	1.00	28.69	C
ATOM	9246	N	LYS	C	342	-7.368	71.751	29.455	1.00	25.48	N
ATOM	9247	CA	LYS	C	342	-8.200	72.216	30.549	1.00	25.42	C
ATOM	9248	C	LYS	C	342	-7.450	72.415	31.872	1.00	25.75	C
ATOM	9249	O	LYS	C	342	-8.051	72.864	32.844	1.00	23.61	O
ATOM	9250	CB	LYS	C	342	-9.391	71.265	30.739	1.00	26.78	C
ATOM	9251	CG	LYS	C	342	-10.325	71.169	29.538	1.00	27.84	C
ATOM	9252	CD	LYS	C	342	-11.084	72.454	29.336	1.00	28.96	C
ATOM	9253	CE	LYS	C	342	-11.848	72.425	28.024	1.00	30.90	C
ATOM	9254	NZ	LYS	C	342	-12.101	73.805	27.457	1.00	31.86	N
ATOM	9255	N	PHE	C	343	-6.161	72.053	31.921	1.00	24.52	N
ATOM	9256	CA	PHE	C	343	-5.383	72.272	33.133	1.00	23.31	C
ATOM	9257	C	PHE	C	343	-4.087	72.862	32.672	1.00	21.61	C
ATOM	9258	O	PHE	C	343	-3.333	72.226	31.936	1.00	23.05	O
ATOM	9259	CB	PHE	C	343	-5.106	70.980	33.928	1.00	23.95	C
ATOM	9260	CG	PHE	C	343	-4.414	71.240	35.238	1.00	25.58	C
ATOM	9261	CD1	PHE	C	343	-5.071	71.943	36.251	1.00	24.50	C
ATOM	9262	CD2	PHE	C	343	-3.075	70.861	35.435	1.00	24.48	C
ATOM	9263	CE1	PHE	C	343	-4.405	72.268	37.450	1.00	26.49	C
ATOM	9264	CE2	PHE	C	343	-2.403	71.182	36.615	1.00	24.34	C
ATOM	9265	CZ	PHE	C	343	-3.059	71.883	37.627	1.00	25.67	C
ATOM	9266	N	GLN	C	344	-3.843	74.100	33.088	1.00	20.20	N
ATOM	9267	CA	GLN	C	344	-2.641	74.806	32.698	1.00	21.87	C
ATOM	9268	C	GLN	C	344	-1.977	75.321	33.965	1.00	21.39	C
ATOM	9269	O	GLN	C	344	-2.653	75.781	34.891	1.00	24.00	O
ATOM	9270	CB	GLN	C	344	-2.998	75.966	31.758	1.00	22.76	C
ATOM	9271	CG	GLN	C	344	-3.873	75.500	30.591	1.00	24.30	C
ATOM	9272	CD	GLN	C	344	-4.114	76.579	29.528	1.00	26.08	C
ATOM	9273	OE1	GLN	C	344	-5.147	76.570	28.848	1.00	29.27	C



ATOM	9274	NE2	GLN	C	344	-3.163	77.471	29.359	1.00	23.24	N
ATOM	9275	N	PHE	C	345	-0.660	75.296	33.974	1.00	21.64	N
ATOM	9276	CA	PHE	C	345	0.084	75.659	35.167	1.00	20.87	C
ATOM	9277	C	PHE	C	345	1.483	76.169	34.871	1.00	20.97	C
ATOM	9278	O	PHE	C	345	2.097	75.812	33.870	1.00	23.71	O
ATOM	9279	CB	PHE	C	345	0.197	74.403	36.087	1.00	20.71	C
ATOM	9280	CG	PHE	C	345	0.684	73.141	35.366	1.00	21.26	C
ATOM	9281	CD1	PHE	C	345	-0.144	72.465	34.473	1.00	20.87	C
ATOM	9282	CD2	PHE	C	345	1.979	72.660	35.556	1.00	19.55	C
ATOM	9283	CE1	PHE	C	345	0.311	71.318	33.760	1.00	20.99	C
ATOM	9284	CE2	PHE	C	345	2.440	71.535	34.870	1.00	23.24	C
ATOM	9285	CZ	PHE	C	345	1.607	70.856	33.964	1.00	22.94	C
ATOM	9286	N	ILE	C	346	1.965	77.049	35.740	1.00	22.30	N
ATOM	9287	CA	ILE	C	346	3.330	77.557	35.651	1.00	21.24	C
ATOM	9288	C	ILE	C	346	4.067	76.794	36.771	1.00	21.82	C
ATOM	9289	O	ILE	C	346	3.948	77.108	37.955	1.00	20.88	O
ATOM	9290	CB	ILE	C	346	3.408	79.058	35.911	1.00	19.31	C
ATOM	9291	CG1	ILE	C	346	2.542	79.821	34.883	1.00	19.42	C
ATOM	9292	CG2	ILE	C	346	4.847	79.503	35.764	1.00	18.92	C
ATOM	9293	CD1	ILE	C	346	2.450	81.351	35.126	1.00	17.14	C
ATOM	9294	N	THR	C	347	4.788	75.758	36.370	1.00	21.51	N
ATOM	9295	CA	THR	C	347	5.493	74.891	37.309	1.00	20.68	C
ATOM	9296	C	THR	C	347	6.356	75.573	38.365	1.00	21.34	C
ATOM	9297	O	THR	C	347	6.208	75.290	39.569	1.00	19.09	O
ATOM	9298	CB	THR	C	347	6.371	73.972	36.543	1.00	20.94	C
ATOM	9299	OG1	THR	C	347	7.101	74.760	35.598	1.00	23.61	O
ATOM	9300	CG2	THR	C	347	5.519	72.882	35.776	1.00	17.98	C
ATOM	9301	N	LEU	C	348	7.256	76.458	37.913	1.00	21.08	N
ATOM	9302	CA	LEU	C	348	8.204	77.126	38.822	1.00	20.19	C
ATOM	9303	C	LEU	C	348	7.873	78.552	39.287	1.00	21.15	C
ATOM	9304	O	LEU	C	348	8.762	79.314	39.646	1.00	20.26	O
ATOM	9305	CB	LEU	C	348	9.591	77.128	38.190	1.00	21.61	C
ATOM	9306	CG	LEU	C	348	10.030	75.827	37.513	1.00	23.71	C
ATOM	9307	CD1	LEU	C	348	11.529	75.914	37.140	1.00	23.17	C
ATOM	9308	CD2	LEU	C	348	9.783	74.658	38.487	1.00	21.47	C
ATOM	9309	N	ALA	C	349	6.595	78.885	39.334	1.00	21.00	N
ATOM	9310	CA	ALA	C	349	6.161	80.215	39.775	1.00	21.13	C
ATOM	9311	C	ALA	C	349	6.600	80.575	41.216	1.00	21.77	C
ATOM	9312	O	ALA	C	349	7.019	81.715	41.504	1.00	23.02	O
ATOM	9313	CB	ALA	C	349	4.623	80.296	39.668	1.00	20.82	C
ATOM	9314	N	GLY	C	350	6.483	79.599	42.115	1.00	22.21	N
ATOM	9315	CA	GLY	C	350	6.818	79.814	43.508	1.00	19.21	C
ATOM	9316	C	GLY	C	350	8.292	80.066	43.628	1.00	21.04	C
ATOM	9317	O	GLY	C	350	8.683	81.015	44.302	1.00	22.82	O
ATOM	9318	N	PHE	C	351	9.110	79.231	42.986	1.00	19.42	N
ATOM	9319	CA	PHE	C	351	10.565	79.411	43.034	1.00	20.22	C
ATOM	9320	C	PHE	C	351	10.933	80.833	42.612	1.00	21.62	C
ATOM	9321	O	PHE	C	351	11.745	81.524	43.241	1.00	21.55	O
ATOM	9322	CB	PHE	C	351	11.251	78.442	42.060	1.00	19.73	C
ATOM	9323	CG	PHE	C	351	12.737	78.678	41.893	1.00	21.08	C
ATOM	9324	CD1	PHE	C	351	13.655	78.177	42.824	1.00	22.77	C
ATOM	9325	CD2	PHE	C	351	13.228	79.411	40.807	1.00	21.71	C
ATOM	9326	CE1	PHE	C	351	15.045	78.394	42.670	1.00	21.96	C
ATOM	9327	CE2	PHE	C	351	14.618	79.631	40.651	1.00	21.02	C
ATOM	9328	CZ	PHE	C	351	15.514	79.132	41.560	1.00	22.04	C
ATOM	9329	N	HIS	C	352	10.372	81.258	41.493	1.00	20.85	N
ATOM	9330	CA	HIS	C	352	10.727	82.575	40.996	1.00	21.33	C
ATOM	9331	C	HIS	C	352	10.230	83.718	41.843	1.00	21.14	C
ATOM	9332	O	HIS	C	352	10.977	84.661	42.085	1.00	23.44	O
ATOM	9333	CB	HIS	C	352	10.316	82.697	39.526	1.00	19.20	C
ATOM	9334	CG	HIS	C	352	11.243	81.957	38.610	1.00	20.25	C
ATOM	9335	ND1	HIS	C	352	12.576	82.296	38.476	1.00	16.78	N
ATOM	9336	CD2	HIS	C	352	11.074	80.814	37.894	1.00	19.03	C
ATOM	9337	CE1	HIS	C	352	13.184	81.391	37.724	1.00	16.85	C
ATOM	9338	NE2	HIS	C	352	12.296	80.483	37.360	1.00	19.24	N
ATOM	9339	N	ALA	C	353	9.009	83.625	42.349	1.00	19.74	N
ATOM	9340	CA	ALA	C	353	8.466	84.693	43.151	1.00	21.20	C
ATOM	9341	C	ALA	C	353	9.248	84.787	44.454	1.00	23.09	C
ATOM	9342	O	ALA	C	353	9.544	85.893	44.935	1.00	22.75	O
ATOM	9343	CB	ALA	C	353	6.960	84.459	43.423	1.00	17.88	C
ATOM	9344	N	LEU	C	354	9.589	83.630	45.028	1.00	21.78	N
ATOM	9345	CA	LEU	C	354	10.361	83.608	46.262	1.00	22.39	C
ATOM	9346	C	LEU	C	354	11.801	84.110	46.086	1.00	21.70	C
ATOM	9347	O	LEU	C	354	12.262	84.942	46.840	1.00	24.93	O
ATOM	9348	CB	LEU	C	354	10.382	82.173	46.833	1.00	22.12	C
ATOM	9349	CG	LEU	C	354	11.109	81.941	48.169	1.00	23.24	C
ATOM	9350	CD1	LEU	C	354	10.582	80.625	48.766	1.00	24.02	C
ATOM	9351	CD2	LEU	C	354	12.620	81.846	47.991	1.00	20.40	C
ATOM	9352	N	ASN	C	355	12.512	83.601	45.098	1.00	23.25	N
ATOM	9353	CA	ASN	C	355	13.885	84.003	44.917	1.00	23.98	C



ATOM	9354	C	ASN	C	355	13.967	85.454	44.489	1.00	25.43	C
ATOM	9355	O	ASN	C	355	14.863	86.182	44.941	1.00	27.70	O
ATOM	9356	CB	ASN	C	355	14.587	83.128	43.894	1.00	22.62	C
ATOM	9357	CG	ASN	C	355	15.136	81.844	44.509	1.00	25.72	C
ATOM	9358	OD1	ASN	C	355	16.298	81.781	44.947	1.00	23.55	O
ATOM	9359	ND2	ASN	C	355	14.294	80.816	44.557	1.00	22.46	N
ATOM	9360	N	TYR	C	356	13.038	85.903	43.650	1.00	25.45	N
ATOM	9361	CA	TYR	C	356	13.135	87.301	43.227	1.00	26.60	C
ATOM	9362	C	TYR	C	356	12.731	88.259	44.338	1.00	27.07	C
ATOM	9363	O	TYR	C	356	13.413	89.240	44.603	1.00	27.21	O
ATOM	9364	CB	TYR	C	356	12.284	87.593	41.980	1.00	26.48	C
ATOM	9365	CG	TYR	C	356	12.432	89.050	41.571	1.00	26.17	C
ATOM	9366	CD1	TYR	C	356	13.637	89.517	41.039	1.00	27.96	C
ATOM	9367	CD2	TYR	C	356	11.431	89.970	41.854	1.00	27.09	C
ATOM	9368	CE1	TYR	C	356	13.846	90.878	40.802	1.00	27.33	C
ATOM	9369	CE2	TYR	C	356	11.624	91.340	41.626	1.00	30.90	C
ATOM	9370	CZ	TYR	C	356	12.837	91.784	41.093	1.00	29.82	C
ATOM	9371	OH	TYR	C	356	13.010	93.134	40.819	1.00	31.26	O
ATOM	9372	N	SER	C	357	11.614	87.977	44.994	1.00	28.84	N
ATOM	9373	CA	SER	C	357	11.153	88.859	46.043	1.00	28.32	C
ATOM	9374	C	SER	C	357	12.188	89.013	47.147	1.00	29.35	C
ATOM	9375	O	SER	C	357	12.337	90.113	47.706	1.00	29.29	O
ATOM	9376	CB	SER	C	357	9.823	88.367	46.615	1.00	29.75	C
ATOM	9377	OG	SER	C	357	9.961	87.086	47.190	1.00	31.52	O
ATOM	9378	N	MET	C	358	12.933	87.953	47.463	1.00	29.77	N
ATOM	9379	CA	MET	C	358	13.912	88.090	48.529	1.00	28.24	C
ATOM	9380	C	MET	C	358	15.143	88.846	48.071	1.00	28.69	C
ATOM	9381	O	MET	C	358	15.647	89.717	48.792	1.00	28.57	O
ATOM	9382	CB	MET	C	358	14.335	86.737	49.104	1.00	28.22	C
ATOM	9383	CG	MET	C	358	15.242	86.839	50.350	1.00	28.21	C
ATOM	9384	SD	MET	C	358	14.618	88.030	51.602	1.00	28.01	S
ATOM	9385	CE	MET	C	358	13.142	87.188	52.347	1.00	27.42	C
ATOM	9386	N	PHE	C	359	15.650	88.505	46.892	1.00	29.36	N
ATOM	9387	CA	PHE	C	359	16.845	89.184	46.388	1.00	28.30	C
ATOM	9388	C	PHE	C	359	16.552	90.682	46.336	1.00	27.92	C
ATOM	9389	O	PHE	C	359	17.372	91.495	46.750	1.00	25.74	O
ATOM	9390	CB	PHE	C	359	17.233	88.685	44.996	1.00	27.54	C
ATOM	9391	CG	PHE	C	359	18.305	89.516	44.343	1.00	27.38	C
ATOM	9392	CD1	PHE	C	359	17.990	90.743	43.760	1.00	27.30	C
ATOM	9393	CD2	PHE	C	359	19.625	89.101	44.352	1.00	28.00	C
ATOM	9394	CE1	PHE	C	359	18.992	91.553	43.196	1.00	27.23	C
ATOM	9395	CE2	PHE	C	359	20.639	89.897	43.788	1.00	28.17	C
ATOM	9396	CZ	PHE	C	359	20.315	91.128	43.211	1.00	26.83	C
ATOM	9397	N	ASP	C	360	15.365	91.034	45.853	1.00	28.28	N
ATOM	9398	CA	ASP	C	360	14.974	92.428	45.756	1.00	29.21	C
ATOM	9399	C	ASP	C	360	14.987	93.090	47.136	1.00	30.41	C
ATOM	9400	O	ASP	C	360	15.528	94.193	47.311	1.00	31.24	O
ATOM	9401	CB	ASP	C	360	13.566	92.561	45.170	1.00	30.52	C
ATOM	9402	CG	ASP	C	360	13.223	94.014	44.830	1.00	32.34	C
ATOM	9403	OD1	ASP	C	360	14.111	94.655	44.224	1.00	32.00	O
ATOM	9404	OD2	ASP	C	360	12.097	94.496	45.160	1.00	30.25	O
ATOM	9405	N	LEU	C	361	14.360	92.427	48.105	1.00	29.64	N
ATOM	9406	CA	LEU	C	361	14.273	92.963	49.455	1.00	28.94	C
ATOM	9407	C	LEU	C	361	15.674	93.119	50.018	1.00	27.62	C
ATOM	9408	O	LEU	C	361	16.054	94.205	50.466	1.00	27.10	O
ATOM	9409	CB	LEU	C	361	13.435	92.044	50.359	1.00	28.81	C
ATOM	9410	CG	LEU	C	361	13.319	92.440	51.844	1.00	28.45	C
ATOM	9411	CD1	LEU	C	361	12.808	93.877	51.939	1.00	27.53	C
ATOM	9412	CD2	LEU	C	361	12.354	91.483	52.562	1.00	27.85	C
ATOM	9413	N	ALA	C	362	16.443	92.043	49.956	1.00	26.51	N
ATOM	9414	CA	ALA	C	362	17.792	92.009	50.490	1.00	27.62	C
ATOM	9415	C	ALA	C	362	18.747	92.996	49.827	1.00	28.76	C
ATOM	9416	O	ALA	C	362	19.684	93.508	50.456	1.00	28.38	O
ATOM	9417	CB	ALA	C	362	18.354	90.609	50.380	1.00	26.37	C
ATOM	9418	N	TYR	C	363	18.535	93.224	48.543	1.00	30.30	N
ATOM	9419	CA	TYR	C	363	19.392	94.147	47.809	1.00	30.82	C
ATOM	9420	C	TYR	C	363	19.089	95.547	48.317	1.00	30.28	C
ATOM	9421	O	TYR	C	363	19.990	96.305	48.648	1.00	31.79	O
ATOM	9422	CB	TYR	C	363	19.103	94.063	46.318	1.00	32.57	C
ATOM	9423	CG	TYR	C	363	20.079	94.900	45.510	1.00	35.71	C
ATOM	9424	CD1	TYR	C	363	21.395	94.473	45.309	1.00	34.29	C
ATOM	9425	CD2	TYR	C	363	19.703	96.153	45.021	1.00	35.36	C
ATOM	9426	CE1	TYR	C	363	22.299	95.257	44.654	1.00	36.09	C
ATOM	9427	CE2	TYR	C	363	20.613	96.957	44.357	1.00	36.71	C
ATOM	9428	CZ	TYR	C	363	21.905	96.504	44.175	1.00	36.97	C
ATOM	9429	OH	TYR	C	363	22.794	97.296	43.485	1.00	37.98	O
ATOM	9430	N	GLY	C	364	17.799	95.871	48.398	1.00	30.55	N
ATOM	9431	CA	GLY	C	364	17.387	97.177	48.874	1.00	30.05	C
ATOM	9432	C	GLY	C	364	17.688	97.412	50.344	1.00	31.29	C
ATOM	9433	O	GLY	C	364	17.897	98.567	50.754	1.00	30.97	O



ATOM	9434	N	TYR	C	365	17.711	96.334	51.131	1.00	29.23	N
ATOM	9435	CA	TYR	C	365	17.978	96.384	52.584	1.00	30.14	C
ATOM	9436	C	TYR	C	365	19.453	96.605	52.809	1.00	30.68	C
ATOM	9437	O	TYR	C	365	19.844	97.348	53.722	1.00	31.81	O
ATOM	9438	CB	TYR	C	365	17.554	95.048	53.246	1.00	30.10	C
ATOM	9439	CG	TYR	C	365	17.842	94.882	54.739	1.00	30.12	C
ATOM	9440	CD1	TYR	C	365	17.146	95.628	55.697	1.00	31.17	C
ATOM	9441	CD2	TYR	C	365	18.728	93.898	55.190	1.00	31.56	C
ATOM	9442	CE1	TYR	C	365	17.308	95.389	57.076	1.00	31.70	C
ATOM	9443	CE2	TYR	C	365	18.901	93.647	56.569	1.00	31.62	C
ATOM	9444	CZ	TYR	C	365	18.179	94.396	57.499	1.00	30.70	C
ATOM	9445	OH	TYR	C	365	18.301	94.123	58.845	1.00	31.76	O
ATOM	9446	N	ALA	C	366	20.280	95.958	51.990	1.00	30.41	N
ATOM	9447	CA	ALA	C	366	21.715	96.107	52.124	1.00	32.17	C
ATOM	9448	C	ALA	C	366	22.098	97.561	51.824	1.00	34.76	C
ATOM	9449	O	ALA	C	366	23.140	98.035	52.286	1.00	35.82	O
ATOM	9450	CB	ALA	C	366	22.441	95.194	51.161	1.00	31.13	C
ATOM	9451	N	GLN	C	367	21.268	98.264	51.052	1.00	36.22	N
ATOM	9452	CA	GLN	C	367	21.581	99.666	50.706	1.00	37.59	C
ATOM	9453	C	GLN	C	367	20.899	100.687	51.611	1.00	37.13	C
ATOM	9454	O	GLN	C	367	21.549	101.556	52.187	1.00	38.32	O
ATOM	9455	CB	GLN	C	367	21.153	99.970	49.263	1.00	38.93	C
ATOM	9456	CG	GLN	C	367	21.693	99.016	48.190	1.00	42.98	C
ATOM	9457	CD	GLN	C	367	23.198	99.088	48.051	1.00	44.81	C
ATOM	9458	OE1	GLN	C	367	23.730	99.466	46.994	1.00	47.23	O
ATOM	9459	NE2	GLN	C	367	23.899	98.733	49.122	1.00	46.03	N
ATOM	9460	N	ASN	C	368	19.580	100.578	51.728	1.00	36.89	N
ATOM	9461	CA	ASN	C	368	18.790	101.523	52.501	1.00	37.00	C
ATOM	9462	C	ASN	C	368	18.096	100.995	53.776	1.00	35.69	C
ATOM	9463	O	ASN	C	368	17.140	101.621	54.270	1.00	33.23	O
ATOM	9464	CB	ASN	C	368	17.735	102.143	51.576	1.00	39.47	C
ATOM	9465	CG	ASN	C	368	18.312	102.585	50.237	1.00	42.34	C
ATOM	9466	OD1	ASN	C	368	18.622	101.759	49.372	1.00	44.37	O
ATOM	9467	ND2	ASN	C	368	18.464	103.897	50.061	1.00	44.07	N
ATOM	9468	N	GLN	C	369	18.555	99.848	54.290	1.00	34.78	N
ATOM	9469	CA	GLN	C	369	17.991	99.253	55.500	1.00	32.84	C
ATOM	9470	C	GLN	C	369	16.478	99.412	55.651	1.00	32.30	C
ATOM	9471	O	GLN	C	369	15.728	99.036	54.754	1.00	32.14	O
ATOM	9472	CB	GLN	C	369	18.699	99.798	56.742	1.00	33.64	C
ATOM	9473	CG	GLN	C	369	20.179	99.418	56.838	1.00	35.27	C
ATOM	9474	CD	GLN	C	369	21.077	100.158	55.846	1.00	38.89	C
ATOM	9475	OE1	GLN	C	369	20.853	100.121	54.637	1.00	41.14	O
ATOM	9476	NE2	GLN	C	369	22.111	100.819	56.359	1.00	39.42	N
ATOM	9477	N	MET	C	370	16.004	99.995	56.751	1.00	30.92	N
ATOM	9478	CA	MET	C	370	14.555	100.058	56.938	1.00	30.02	C
ATOM	9479	C	MET	C	370	13.698	100.635	55.816	1.00	30.34	C
ATOM	9480	O	MET	C	370	12.543	100.229	55.651	1.00	30.47	O
ATOM	9481	CB	MET	C	370	14.183	100.741	58.270	1.00	29.44	C
ATOM	9482	CG	MET	C	370	14.587	99.969	59.535	1.00	29.37	C
ATOM	9483	SD	MET	C	370	14.328	98.131	59.393	1.00	28.30	S
ATOM	9484	CE	MET	C	370	12.644	98.063	59.243	1.00	23.23	C
ATOM	9485	N	SER	C	371	14.245	101.570	55.041	1.00	30.76	N
ATOM	9486	CA	SER	C	371	13.502	102.183	53.937	1.00	30.60	C
ATOM	9487	C	SER	C	371	12.973	101.095	52.980	1.00	30.48	C
ATOM	9488	O	SER	C	371	11.794	101.116	52.578	1.00	30.85	O
ATOM	9489	CB	SER	C	371	14.428	103.163	53.172	1.00	32.29	C
ATOM	9490	OG	SER	C	371	15.349	103.817	54.055	1.00	34.44	O
ATOM	9491	N	ALA	C	372	13.854	100.162	52.610	1.00	29.89	N
ATOM	9492	CA	ALA	C	372	13.496	99.034	51.724	1.00	31.23	C
ATOM	9493	C	ALA	C	372	12.321	98.211	52.275	1.00	31.42	C
ATOM	9494	O	ALA	C	372	11.323	97.937	51.557	1.00	31.68	O
ATOM	9495	CB	ALA	C	372	14.712	98.125	51.527	1.00	31.17	C
ATOM	9496	N	TYR	C	373	12.420	97.812	53.542	1.00	30.41	N
ATOM	9497	CA	TYR	C	373	11.352	97.021	54.133	1.00	29.05	C
ATOM	9498	C	TYR	C	373	10.078	97.843	54.182	1.00	29.47	C
ATOM	9499	O	TYR	C	373	8.970	97.358	53.924	1.00	29.62	O
ATOM	9500	CB	TYR	C	373	11.697	96.555	55.560	1.00	28.07	C
ATOM	9501	CG	TYR	C	373	10.684	95.534	56.039	1.00	27.71	C
ATOM	9502	CD1	TYR	C	373	10.699	94.236	55.522	1.00	28.18	C
ATOM	9503	CD2	TYR	C	373	9.598	95.912	56.823	1.00	27.11	C
ATOM	9504	CE1	TYR	C	373	9.660	93.353	55.749	1.00	26.95	C
ATOM	9505	CE2	TYR	C	373	8.541	95.027	57.049	1.00	29.03	C
ATOM	9506	CZ	TYR	C	373	8.588	93.751	56.497	1.00	29.57	C
ATOM	9507	OH	TYR	C	373	7.524	92.883	56.649	1.00	31.70	O
ATOM	9508	N	VAL	C	374	10.224	99.117	54.518	1.00	30.55	N
ATOM	9509	CA	VAL	C	374	9.036	99.938	54.600	1.00	29.94	C
ATOM	9510	C	VAL	C	374	8.323	99.982	53.265	1.00	29.38	C
ATOM	9511	O	VAL	C	374	7.097	99.991	53.211	1.00	30.14	O
ATOM	9512	CB	VAL	C	374	9.391	101.330	55.123	1.00	30.81	C
ATOM	9513	CG1	VAL	C	374	8.133	102.219	55.138	1.00	31.23	C



ATOM	9514	CG2	VAL	C	374	9.936	101.176	56.527	1.00	30.15	C
ATOM	9515	N	GLU	C	375	9.091	99.967	52.185	1.00	30.70	N
ATOM	9516	CA	GLU	C	375	8.501	99.970	50.853	1.00	32.20	C
ATOM	9517	C	GLU	C	375	7.609	98.742	50.708	1.00	30.66	C
ATOM	9518	O	GLU	C	375	6.476	98.811	50.219	1.00	31.04	O
ATOM	9519	CB	GLU	C	375	9.604	99.929	49.792	1.00	34.51	C
ATOM	9520	CG	GLU	C	375	10.134	101.288	49.381	1.00	39.85	C
ATOM	9521	CD	GLU	C	375	11.477	101.213	48.656	1.00	43.12	C
ATOM	9522	OE1	GLU	C	375	11.562	100.516	47.612	1.00	46.13	O
ATOM	9523	OE2	GLU	C	375	12.449	101.858	49.123	1.00	44.46	O
ATOM	9524	N	LEU	C	376	8.115	97.606	51.172	1.00	31.65	N
ATOM	9525	CA	LEU	C	376	7.341	96.377	51.058	1.00	28.46	C
ATOM	9526	C	LEU	C	376	6.069	96.458	51.882	1.00	29.01	C
ATOM	9527	O	LEU	C	376	4.998	96.141	51.377	1.00	31.24	O
ATOM	9528	CB	LEU	C	376	8.195	95.196	51.494	1.00	27.98	C
ATOM	9529	CG	LEU	C	376	7.495	93.837	51.543	1.00	27.07	C
ATOM	9530	CD1	LEU	C	376	6.941	93.459	50.156	1.00	26.34	C
ATOM	9531	CD2	LEU	C	376	8.488	92.801	52.043	1.00	26.77	C
ATOM	9532	N	GLN	C	377	6.174	96.929	53.132	1.00	30.46	N
ATOM	9533	CA	GLN	C	377	5.006	97.030	54.026	1.00	31.54	C
ATOM	9534	C	GLN	C	377	3.823	97.879	53.520	1.00	31.18	C
ATOM	9535	O	GLN	C	377	2.659	97.502	53.699	1.00	31.58	O
ATOM	9536	CB	GLN	C	377	5.451	97.514	55.418	1.00	32.09	C
ATOM	9537	CG	GLN	C	377	4.441	97.223	56.515	1.00	34.24	C
ATOM	9538	CD	GLN	C	377	4.969	97.540	57.902	1.00	37.44	C
ATOM	9539	OE1	GLN	C	377	4.585	96.884	58.879	1.00	38.32	O
ATOM	9540	NE2	GLN	C	377	5.856	98.550	58.002	1.00	36.10	N
ATOM	9541	N	GLU	C	378	4.096	99.014	52.886	1.00	32.42	N
ATOM	9542	CA	GLU	C	378	3.001	99.843	52.372	1.00	33.27	C
ATOM	9543	C	GLU	C	378	2.319	99.143	51.188	1.00	33.09	C
ATOM	9544	O	GLU	C	378	1.079	99.230	50.988	1.00	33.50	O
ATOM	9545	CB	GLU	C	378	3.529	101.222	51.950	1.00	36.07	C
ATOM	9546	CG	GLU	C	378	4.095	102.065	53.131	1.00	38.56	C
ATOM	9547	CD	GLU	C	378	3.092	102.235	54.279	1.00	41.28	C
ATOM	9548	OE1	GLU	C	378	1.904	102.580	54.011	1.00	41.23	O
ATOM	9549	OE2	GLU	C	378	3.495	102.035	55.457	1.00	42.02	O
ATOM	9550	N	ARG	C	379	3.123	98.424	50.419	1.00	32.72	N
ATOM	9551	CA	ARG	C	379	2.611	97.670	49.281	1.00	31.86	C
ATOM	9552	C	ARG	C	379	1.576	96.655	49.766	1.00	30.45	C
ATOM	9553	O	ARG	C	379	0.561	96.423	49.092	1.00	29.07	O
ATOM	9554	CB	ARG	C	379	3.762	96.979	48.575	1.00	33.26	C
ATOM	9555	CG	ARG	C	379	4.843	97.960	48.197	1.00	37.27	C
ATOM	9556	CD	ARG	C	379	5.618	97.562	46.961	1.00	39.12	C
ATOM	9557	NE	ARG	C	379	6.686	96.633	47.290	1.00	44.07	N
ATOM	9558	CZ	ARG	C	379	7.817	96.522	46.600	1.00	45.33	C
ATOM	9559	NH1	ARG	C	379	8.021	97.289	45.534	1.00	45.37	N
ATOM	9560	NH2	ARG	C	379	8.749	95.656	46.982	1.00	47.06	N
ATOM	9561	N	GLU	C	380	1.847	96.075	50.944	1.00	29.89	N
ATOM	9562	CA	GLU	C	380	0.967	95.102	51.578	1.00	29.32	C
ATOM	9563	C	GLU	C	380	-0.304	95.785	52.054	1.00	29.05	C
ATOM	9564	O	GLU	C	380	-1.417	95.271	51.869	1.00	29.08	O
ATOM	9565	CB	GLU	C	380	1.693	94.409	52.755	1.00	30.80	C
ATOM	9566	CG	GLU	C	380	2.946	93.608	52.324	1.00	29.88	C
ATOM	9567	CD	GLU	C	380	3.571	92.786	53.461	1.00	33.42	C
ATOM	9568	OE1	GLU	C	380	3.006	91.719	53.804	1.00	30.45	O
ATOM	9569	OE2	GLU	C	380	4.623	93.213	54.013	1.00	34.18	O
ATOM	9570	N	PHE	C	381	-0.159	96.953	52.669	1.00	29.64	N
ATOM	9571	CA	PHE	C	381	-1.354	97.668	53.103	1.00	31.29	C
ATOM	9572	C	PHE	C	381	-2.135	97.977	51.820	1.00	31.00	C
ATOM	9573	O	PHE	C	381	-3.356	97.827	51.765	1.00	32.31	O
ATOM	9574	CB	PHE	C	381	-0.996	98.984	53.810	1.00	32.62	C
ATOM	9575	CG	PHE	C	381	-0.370	98.804	55.176	1.00	35.03	C
ATOM	9576	CD1	PHE	C	381	-1.001	98.039	56.153	1.00	34.27	C
ATOM	9577	CD2	PHE	C	381	0.827	99.441	55.491	1.00	34.63	C
ATOM	9578	CE1	PHE	C	381	-0.456	97.917	57.419	1.00	35.78	C
ATOM	9579	CE2	PHE	C	381	1.381	99.323	56.768	1.00	35.67	C
ATOM	9580	CZ	PHE	C	381	0.742	98.565	57.727	1.00	35.27	C
ATOM	9581	N	ALA	C	382	-1.421	98.383	50.785	1.00	31.02	N
ATOM	9582	CA	ALA	C	382	-2.075	98.710	49.519	1.00	33.33	C
ATOM	9583	C	ALA	C	382	-2.885	97.505	48.981	1.00	34.17	C
ATOM	9584	O	ALA	C	382	-4.083	97.627	48.631	1.00	33.69	O
ATOM	9585	CB	ALA	C	382	-1.013	99.157	48.495	1.00	32.69	C
ATOM	9586	N	ALA	C	383	-2.245	96.329	48.970	1.00	33.24	N
ATOM	9587	CA	ALA	C	383	-2.883	95.120	48.454	1.00	33.99	C
ATOM	9588	C	ALA	C	383	-4.138	94.701	49.220	1.00	35.87	C
ATOM	9589	O	ALA	C	383	-4.868	93.790	48.803	1.00	36.37	O
ATOM	9590	CB	ALA	C	383	-1.868	93.977	48.434	1.00	33.42	C
ATOM	9591	N	GLU	C	384	-4.426	95.369	50.327	1.00	37.46	N
ATOM	9592	CA	GLU	C	384	-5.600	94.981	51.083	1.00	39.58	C
ATOM	9593	C	GLU	C	384	-6.903	95.204	50.322	1.00	39.92	C

"T0000" 23 Feb 00



ATOM	9594	O	GLU	C	384	-7.860	94.430	50.484	1.00	39.35	O
ATOM	9595	CB	GLU	C	384	-5.610	95.711	52.422	1.00	41.05	C
ATOM	9596	CG	GLU	C	384	-4.398	95.366	53.256	1.00	43.41	C
ATOM	9597	CD	GLU	C	384	-4.398	96.085	54.586	1.00	45.51	C
ATOM	9598	OE1	GLU	C	384	-5.491	96.183	55.194	1.00	46.11	O
ATOM	9599	OE2	GLU	C	384	-3.312	96.534	55.021	1.00	45.17	O
ATOM	9600	N	GLU	C	385	-6.934	96.238	49.483	1.00	40.95	N
ATOM	9601	CA	GLU	C	385	-8.124	96.545	48.687	1.00	42.52	C
ATOM	9602	C	GLU	C	385	-8.401	95.401	47.703	1.00	42.19	C
ATOM	9603	O	GLU	C	385	-9.558	95.141	47.338	1.00	41.06	O
ATOM	9604	CB	GLU	C	385	-7.927	97.858	47.924	1.00	45.07	C
ATOM	9605	CG	GLU	C	385	-7.863	99.092	48.806	1.00	48.28	C
ATOM	9606	CD	GLU	C	385	-6.637	99.939	48.516	1.00	50.72	C
ATOM	9607	OE1	GLU	C	385	-6.211	100.017	47.336	1.00	51.46	O
ATOM	9608	OE2	GLU	C	385	-6.098	100.536	49.472	1.00	52.88	O
ATOM	9609	N	ARG	C	386	-7.327	94.717	47.302	1.00	41.10	N
ATOM	9610	CA	ARG	C	386	-7.400	93.573	46.395	1.00	39.74	C
ATOM	9611	C	ARG	C	386	-7.738	92.259	47.118	1.00	38.46	C
ATOM	9612	O	ARG	C	386	-7.996	91.226	46.467	1.00	37.23	O
ATOM	9613	CB	ARG	C	386	-6.078	93.395	45.664	1.00	40.94	C
ATOM	9614	CG	ARG	C	386	-5.754	94.507	44.732	1.00	43.08	C
ATOM	9615	CD	ARG	C	386	-4.630	94.092	43.847	1.00	43.42	C
ATOM	9616	NE	ARG	C	386	-3.313	94.271	44.433	1.00	45.19	N
ATOM	9617	CZ	ARG	C	386	-2.233	93.621	44.006	1.00	45.99	C
ATOM	9618	NH1	ARG	C	386	-2.335	92.748	43.009	1.00	46.60	N
ATOM	9619	NH2	ARG	C	386	-1.046	93.864	44.535	1.00	46.14	N
ATOM	9620	N	GLY	C	387	-7.709	92.287	48.451	1.00	36.43	N
ATOM	9621	CA	GLY	C	387	-8.050	91.100	49.215	1.00	34.48	C
ATOM	9622	C	GLY	C	387	-6.945	90.467	50.043	1.00	33.21	C
ATOM	9623	O	GLY	C	387	-7.183	89.475	50.749	1.00	31.82	O
ATOM	9624	N	TYR	C	388	-5.748	91.029	49.941	1.00	32.62	N
ATOM	9625	CA	TYR	C	388	-4.592	90.572	50.708	1.00	31.38	C
ATOM	9626	C	TYR	C	388	-4.870	90.779	52.197	1.00	32.36	C
ATOM	9627	O	TYR	C	388	-5.458	91.808	52.583	1.00	31.92	O
ATOM	9628	CB	TYR	C	388	-3.379	91.393	50.313	1.00	31.56	C
ATOM	9629	CG	TYR	C	388	-2.082	90.959	50.948	1.00	29.82	C
ATOM	9630	CD1	TYR	C	388	-1.531	89.702	50.668	1.00	31.79	C
ATOM	9631	CD2	TYR	C	388	-1.347	91.839	51.738	1.00	31.28	C
ATOM	9632	CE1	TYR	C	388	-0.268	89.340	51.147	1.00	29.21	C
ATOM	9633	CE2	TYR	C	388	-0.074	91.493	52.233	1.00	31.00	C
ATOM	9634	CZ	TYR	C	388	0.457	90.235	51.922	1.00	31.80	C
ATOM	9635	OH	TYR	C	388	1.725	89.906	52.356	1.00	30.27	O
ATOM	9636	N	THR	C	389	-4.431	89.837	53.038	1.00	29.66	N
ATOM	9637	CA	THR	C	389	-4.672	89.942	54.461	1.00	28.12	C
ATOM	9638	C	THR	C	389	-3.464	89.679	55.347	1.00	28.41	C
ATOM	9639	O	THR	C	389	-3.551	89.852	56.574	1.00	27.47	O
ATOM	9640	CB	THR	C	389	-5.751	88.947	54.934	1.00	28.73	C
ATOM	9641	OG1	THR	C	389	-5.337	87.612	54.606	1.00	30.52	O
ATOM	9642	CG2	THR	C	389	-7.113	89.223	54.273	1.00	27.91	C
ATOM	9643	N	ALA	C	390	-2.348	89.278	54.747	1.00	27.66	N
ATOM	9644	CA	ALA	C	390	-1.154	88.925	55.522	1.00	28.09	C
ATOM	9645	C	ALA	C	390	-0.394	90.050	56.228	1.00	28.56	C
ATOM	9646	O	ALA	C	390	0.447	89.785	57.081	1.00	27.12	O
ATOM	9647	CB	ALA	C	390	-0.181	88.111	54.636	1.00	28.52	C
ATOM	9648	N	THR	C	391	-0.670	91.303	55.869	1.00	27.90	N
ATOM	9649	CA	THR	C	391	-0.014	92.435	56.533	1.00	27.86	C
ATOM	9650	C	THR	C	391	-0.177	92.232	58.037	1.00	26.61	C
ATOM	9651	O	THR	C	391	0.745	92.493	58.820	1.00	28.61	O
ATOM	9652	CB	THR	C	391	-0.702	93.782	56.153	1.00	28.98	C
ATOM	9653	OG1	THR	C	391	-1.176	93.705	54.808	1.00	29.80	O
ATOM	9654	CG2	THR	C	391	0.295	94.923	56.253	1.00	29.04	C
ATOM	9655	N	LYS	C	392	-1.372	91.784	58.420	1.00	27.15	N
ATOM	9656	CA	LYS	C	392	-1.710	91.475	59.803	1.00	26.70	C
ATOM	9657	C	LYS	C	392	-1.380	89.995	59.957	1.00	25.61	C
ATOM	9658	O	LYS	C	392	-2.253	89.127	59.988	1.00	25.15	O
ATOM	9659	CB	LYS	C	392	-3.187	91.703	60.035	1.00	29.50	C
ATOM	9660	CG	LYS	C	392	-3.581	93.176	59.869	1.00	31.78	C
ATOM	9661	CD	LYS	C	392	-4.722	93.496	60.752	1.00	35.43	C
ATOM	9662	CE	LYS	C	392	-5.874	92.525	60.566	1.00	37.31	C
ATOM	9663	NZ	LYS	C	392	-6.622	92.273	61.864	1.00	36.96	N
ATOM	9664	N	HIS	C	393	-0.096	89.734	60.062	1.00	25.65	N
ATOM	9665	CA	HIS	C	393	0.392	88.365	60.159	1.00	24.53	C
ATOM	9666	C	HIS	C	393	-0.030	87.488	61.331	1.00	23.78	C
ATOM	9667	O	HIS	C	393	-0.034	86.246	61.196	1.00	24.50	O
ATOM	9668	CB	HIS	C	393	1.906	88.395	60.065	1.00	22.87	C
ATOM	9669	CG	HIS	C	393	2.555	89.303	61.057	1.00	25.04	C
ATOM	9670	ND1	HIS	C	393	3.405	90.332	60.688	1.00	24.37	N
ATOM	9671	CD2	HIS	C	393	2.523	89.303	62.414	1.00	24.52	C
ATOM	9672	CE1	HIS	C	393	3.867	90.923	61.777	1.00	25.59	C
ATOM	9673	NE2	HIS	C	393	3.347	90.319	62.839	1.00	25.49	N

44000 3444660



ATOM	9674	N	GLN	C	394	-0.372	88.078	62.474	1.00	23.50	N
ATOM	9675	CA	GLN	C	394	-0.736	87.253	63.628	1.00	24.73	C
ATOM	9676	C	GLN	C	394	-2.044	86.523	63.350	1.00	25.35	C
ATOM	9677	O	GLN	C	394	-2.140	85.296	63.503	1.00	26.30	O
ATOM	9678	CB	GLN	C	394	-0.866	88.096	64.910	1.00	25.25	C
ATOM	9679	CG	GLN	C	394	0.283	89.027	65.197	1.00	24.49	C
ATOM	9680	CD	GLN	C	394	1.566	88.359	65.623	1.00	27.15	C
ATOM	9681	OE1	GLN	C	394	1.709	87.135	65.557	1.00	26.95	O
ATOM	9682	NE2	GLN	C	394	2.524	89.167	66.059	1.00	26.26	N
ATOM	9683	N	ARG	C	395	-3.069	87.246	62.907	1.00	24.77	N
ATOM	9684	CA	ARG	C	395	-4.343	86.557	62.659	1.00	23.79	C
ATOM	9685	C	ARG	C	395	-4.235	85.630	61.455	1.00	21.22	C
ATOM	9686	O	ARG	C	395	-4.973	84.640	61.364	1.00	21.98	O
ATOM	9687	CB	ARG	C	395	-5.482	87.578	62.429	1.00	24.42	C
ATOM	9688	CG	ARG	C	395	-5.115	88.719	61.468	1.00	25.02	C
ATOM	9689	CD	ARG	C	395	-6.310	89.071	60.575	1.00	25.78	C
ATOM	9690	NE	ARG	C	395	-6.812	87.926	59.787	1.00	26.64	N
ATOM	9691	CZ	ARG	C	395	-6.168	87.387	58.748	1.00	25.05	C
ATOM	9692	NH1	ARG	C	395	-4.996	87.878	58.343	1.00	21.78	N
ATOM	9693	NH2	ARG	C	395	-6.687	86.335	58.133	1.00	24.17	N
ATOM	9694	N	GLU	C	396	-3.337	85.977	60.535	1.00	21.04	N
ATOM	9695	CA	GLU	C	396	-3.122	85.224	59.303	1.00	21.84	C
ATOM	9696	C	GLU	C	396	-2.601	83.829	59.613	1.00	22.46	C
ATOM	9697	O	GLU	C	396	-2.883	82.893	58.865	1.00	22.50	O
ATOM	9698	CB	GLU	C	396	-2.100	85.917	58.399	1.00	24.55	C
ATOM	9699	CG	GLU	C	396	-1.827	85.216	57.034	1.00	27.19	C
ATOM	9700	CD	GLU	C	396	-2.860	85.549	55.952	1.00	29.25	C
ATOM	9701	OE1	GLU	C	396	-3.614	86.552	56.108	1.00	27.44	O
ATOM	9702	OE2	GLU	C	396	-2.914	84.817	54.934	1.00	28.60	O
ATOM	9703	N	VAL	C	397	-1.834	83.689	60.694	1.00	21.45	N
ATOM	9704	CA	VAL	C	397	-1.327	82.373	61.028	1.00	21.63	C
ATOM	9705	C	VAL	C	397	-2.128	81.668	62.119	1.00	21.13	C
ATOM	9706	O	VAL	C	397	-1.775	80.585	62.603	1.00	21.25	O
ATOM	9707	CB	VAL	C	397	0.181	82.445	61.319	1.00	24.70	C
ATOM	9708	CG1	VAL	C	397	0.498	83.496	62.384	1.00	23.13	C
ATOM	9709	CG2	VAL	C	397	0.649	81.120	61.724	1.00	28.92	C
ATOM	9710	N	GLY	C	398	-3.251	82.268	62.492	1.00	21.15	N
ATOM	9711	CA	GLY	C	398	-4.103	81.624	63.465	1.00	18.15	C
ATOM	9712	C	GLY	C	398	-4.037	82.054	64.913	1.00	19.43	C
ATOM	9713	O	GLY	C	398	-4.589	81.355	65.788	1.00	20.68	O
ATOM	9714	N	ALA	C	399	-3.385	83.189	65.180	1.00	20.75	N
ATOM	9715	CA	ALA	C	399	-3.317	83.718	66.538	1.00	21.67	C
ATOM	9716	C	ALA	C	399	-4.751	83.859	67.082	1.00	22.28	C
ATOM	9717	O	ALA	C	399	-5.008	83.499	68.225	1.00	22.78	O
ATOM	9718	CB	ALA	C	399	-2.601	85.053	66.549	1.00	22.79	C
ATOM	9719	N	GLY	C	400	-5.698	84.342	66.263	1.00	23.28	N
ATOM	9720	CA	GLY	C	400	-7.079	84.445	66.735	1.00	22.02	C
ATOM	9721	C	GLY	C	400	-7.771	83.090	66.856	1.00	22.70	C
ATOM	9722	O	GLY	C	400	-8.627	82.867	67.732	1.00	22.71	O
ATOM	9723	N	TYR	C	401	-7.394	82.154	65.986	1.00	22.26	N
ATOM	9724	CA	TYR	C	401	-7.998	80.829	66.033	1.00	21.88	C
ATOM	9725	C	TYR	C	401	-7.558	80.110	67.312	1.00	21.08	C
ATOM	9726	O	TYR	C	401	-8.373	79.467	67.977	1.00	20.36	O
ATOM	9727	CB	TYR	C	401	-7.610	80.018	64.791	1.00	20.51	C
ATOM	9728	CG	TYR	C	401	-8.151	78.622	64.776	1.00	23.25	C
ATOM	9729	CD1	TYR	C	401	-9.516	78.373	64.535	1.00	20.92	C
ATOM	9730	CD2	TYR	C	401	-7.315	77.531	65.031	1.00	20.81	C
ATOM	9731	CE1	TYR	C	401	-10.012	77.087	64.552	1.00	22.53	C
ATOM	9732	CE2	TYR	C	401	-7.813	76.236	65.057	1.00	21.27	C
ATOM	9733	CZ	TYR	C	401	-9.149	76.012	64.814	1.00	20.46	C
ATOM	9734	OH	TYR	C	401	-9.625	74.738	64.821	1.00	22.98	O
ATOM	9735	N	PHE	C	402	-6.267	80.206	67.652	1.00	21.38	N
ATOM	9736	CA	PHE	C	402	-5.792	79.555	68.862	1.00	19.65	C
ATOM	9737	C	PHE	C	402	-6.320	80.245	70.130	1.00	21.04	C
ATOM	9738	O	PHE	C	402	-6.526	79.613	71.170	1.00	20.55	O
ATOM	9739	CB	PHE	C	402	-4.247	79.436	68.824	1.00	19.48	C
ATOM	9740	CG	PHE	C	402	-3.785	78.268	68.006	1.00	19.20	C
ATOM	9741	CD1	PHE	C	402	-3.641	78.374	66.630	1.00	16.94	C
ATOM	9742	CD2	PHE	C	402	-3.648	77.006	68.601	1.00	19.07	C
ATOM	9743	CE1	PHE	C	402	-3.371	77.229	65.825	1.00	19.96	C
ATOM	9744	CE2	PHE	C	402	-3.386	75.866	67.797	1.00	19.68	C
ATOM	9745	CZ	PHE	C	402	-3.253	75.990	66.425	1.00	19.11	C
ATOM	9746	N	ASP	C	403	-6.586	81.544	70.033	1.00	23.25	N
ATOM	9747	CA	ASP	C	403	-7.177	82.287	71.157	1.00	23.96	C
ATOM	9748	C	ASP	C	403	-8.568	81.703	71.419	1.00	24.34	C
ATOM	9749	O	ASP	C	403	-9.019	81.596	72.576	1.00	26.93	O
ATOM	9750	CB	ASP	C	403	-7.319	83.753	70.783	1.00	26.37	C
ATOM	9751	CG	ASP	C	403	-6.109	84.565	71.164	1.00	28.62	C
ATOM	9752	OD1	ASP	C	403	-5.069	83.959	71.488	1.00	30.45	O
ATOM	9753	OD2	ASP	C	403	-6.183	85.816	71.145	1.00	32.06	O



ATOM	9754	N	ARG	C	404	-9.259	81.334	70.337	1.00	24.70	N
ATOM	9755	CA	ARG	C	404	-10.589	80.760	70.461	1.00	23.84	C
ATOM	9756	C	ARG	C	404	-10.523	79.422	71.162	1.00	23.44	C
ATOM	9757	O	ARG	C	404	-11.370	79.088	71.997	1.00	22.81	O
ATOM	9758	CB	ARG	C	404	-11.215	80.595	69.081	1.00	25.97	C
ATOM	9759	CG	ARG	C	404	-12.686	80.222	69.129	1.00	30.78	C
ATOM	9760	CD	ARG	C	404	-13.472	81.339	69.760	1.00	35.21	C
ATOM	9761	NE	ARG	C	404	-14.906	81.067	69.796	1.00	39.46	N
ATOM	9762	CZ	ARG	C	404	-15.729	81.231	68.766	1.00	39.27	C
ATOM	9763	NH1	ARG	C	404	-15.282	81.662	67.600	1.00	40.12	N
ATOM	9764	NH2	ARG	C	404	-17.011	80.982	68.916	1.00	41.66	N
ATOM	9765	N	ILE	C	405	-9.514	78.613	70.802	1.00	21.49	N
ATOM	9766	CA	ILE	C	405	-9.379	77.326	71.454	1.00	21.72	C
ATOM	9767	C	ILE	C	405	-9.120	77.583	72.925	1.00	19.84	C
ATOM	9768	O	ILE	C	405	-9.747	76.970	73.802	1.00	22.18	O
ATOM	9769	CB	ILE	C	405	-8.172	76.475	70.886	1.00	19.37	C
ATOM	9770	CG1	ILE	C	405	-8.435	76.112	69.413	1.00	20.96	C
ATOM	9771	CG2	ILE	C	405	-8.007	75.193	71.725	1.00	20.17	C
ATOM	9772	CD1	ILE	C	405	-7.236	75.489	68.647	1.00	21.89	C
ATOM	9773	N	ALA	C	406	-8.198	78.492	73.186	1.00	20.51	N
ATOM	9774	CA	ALA	C	406	-7.791	78.820	74.545	1.00	22.17	C
ATOM	9775	C	ALA	C	406	-8.996	79.225	75.424	1.00	22.41	C
ATOM	9776	O	ALA	C	406	-9.181	78.721	76.552	1.00	21.47	O
ATOM	9777	CB	ALA	C	406	-6.744	79.930	74.494	1.00	20.26	C
ATOM	9778	N	THR	C	407	-9.849	80.098	74.890	1.00	25.43	N
ATOM	9779	CA	THR	C	407	-11.017	80.547	75.658	1.00	24.16	C
ATOM	9780	C	THR	C	407	-12.114	79.500	75.713	1.00	24.24	C
ATOM	9781	O	THR	C	407	-12.981	79.544	76.587	1.00	23.68	O
ATOM	9782	CB	THR	C	407	-11.580	81.886	75.088	1.00	25.97	C
ATOM	9783	OG1	THR	C	407	-11.986	81.710	73.733	1.00	27.01	O
ATOM	9784	CG2	THR	C	407	-10.534	82.950	75.117	1.00	25.56	C
ATOM	9785	N	THR	C	408	-12.082	78.539	74.794	1.00	22.63	N
ATOM	9786	CA	THR	C	408	-13.072	77.481	74.821	1.00	24.12	C
ATOM	9787	C	THR	C	408	-12.687	76.591	75.987	1.00	25.35	C
ATOM	9788	O	THR	C	408	-13.563	76.119	76.746	1.00	26.29	O
ATOM	9789	CB	THR	C	408	-13.079	76.654	73.508	1.00	22.92	C
ATOM	9790	OG1	THR	C	408	-13.518	77.484	72.425	1.00	23.61	O
ATOM	9791	CG2	THR	C	408	-14.011	75.477	73.628	1.00	22.74	C
ATOM	9792	N	VAL	C	409	-11.375	76.382	76.143	1.00	24.16	N
ATOM	9793	CA	VAL	C	409	-10.859	75.559	77.223	1.00	24.28	C
ATOM	9794	C	VAL	C	409	-11.028	76.311	78.537	1.00	24.87	C
ATOM	9795	O	VAL	C	409	-11.480	75.738	79.518	1.00	27.25	O
ATOM	9796	CB	VAL	C	409	-9.358	75.223	77.003	1.00	24.33	C
ATOM	9797	CG1	VAL	C	409	-8.804	74.445	78.200	1.00	25.84	C
ATOM	9798	CG2	VAL	C	409	-9.214	74.395	75.724	1.00	24.32	C
ATOM	9799	N	ASP	C	410	-10.679	77.593	78.542	1.00	26.73	N
ATOM	9800	CA	ASP	C	410	-10.767	78.403	79.762	1.00	28.27	C
ATOM	9801	C	ASP	C	410	-11.122	79.838	79.402	1.00	28.12	C
ATOM	9802	O	ASP	C	410	-10.263	80.615	79.019	1.00	27.73	O
ATOM	9803	CB	ASP	C	410	-9.422	78.371	80.514	1.00	28.54	C
ATOM	9804	CG	ASP	C	410	-9.384	79.322	81.731	1.00	31.99	C
ATOM	9805	OD1	ASP	C	410	-10.463	79.824	82.164	1.00	29.43	O
ATOM	9806	OD2	ASP	C	410	-8.261	79.559	82.262	1.00	32.25	O
ATOM	9807	N	PRO	C	411	-12.404	80.208	79.539	1.00	30.14	N
ATOM	9808	CA	PRO	C	411	-12.858	81.566	79.214	1.00	30.70	C
ATOM	9809	C	PRO	C	411	-12.096	82.666	79.950	1.00	31.36	C
ATOM	9810	O	PRO	C	411	-11.971	83.776	79.443	1.00	31.77	O
ATOM	9811	CB	PRO	C	411	-14.327	81.551	79.627	1.00	30.58	C
ATOM	9812	CG	PRO	C	411	-14.711	80.127	79.502	1.00	32.62	C
ATOM	9813	CD	PRO	C	411	-13.520	79.379	80.012	1.00	29.44	C
ATOM	9814	N	ASN	C	412	-11.578	82.334	81.130	1.00	31.16	N
ATOM	9815	CA	ASN	C	412	-10.880	83.284	81.979	1.00	32.41	C
ATOM	9816	C	ASN	C	412	-9.363	83.341	81.837	1.00	31.51	C
ATOM	9817	O	ASN	C	412	-8.682	84.037	82.614	1.00	30.57	O
ATOM	9818	CB	ASN	C	412	-11.256	83.015	83.442	1.00	34.70	C
ATOM	9819	CG	ASN	C	412	-12.761	83.074	83.674	1.00	36.79	C
ATOM	9820	OD1	ASN	C	412	-13.447	83.926	83.105	1.00	40.63	O
ATOM	9821	ND2	ASN	C	412	-13.279	82.178	84.508	1.00	37.87	N
ATOM	9822	N	SER	C	413	-8.824	82.627	80.851	1.00	30.78	N
ATOM	9823	CA	SER	C	413	-7.376	82.624	80.642	1.00	29.72	C
ATOM	9824	C	SER	C	413	-6.792	84.022	80.547	1.00	29.39	C
ATOM	9825	O	SER	C	413	-7.313	84.877	79.822	1.00	31.15	O
ATOM	9826	CB	SER	C	413	-6.988	81.879	79.356	1.00	29.75	C
ATOM	9827	OG	SER	C	413	-5.791	82.453	78.824	1.00	27.02	O
ATOM	9828	N	SER	C	414	-5.702	84.266	81.255	1.00	28.56	N
ATOM	9829	CA	SER	C	414	-5.078	85.576	81.163	1.00	29.62	C
ATOM	9830	C	SER	C	414	-3.892	85.539	80.212	1.00	30.45	C
ATOM	9831	O	SER	C	414	-3.071	86.456	80.195	1.00	29.83	O
ATOM	9832	CB	SER	C	414	-4.631	86.069	82.547	1.00	31.25	C
ATOM	9833	OG	SER	C	414	-4.024	85.041	83.288	1.00	35.26	O



ATOM	9834	N	THR	C	415	-3.797	84.472	79.410	1.00	29.98	N
ATOM	9835	CA	THR	C	415	-2.662	84.369	78.499	1.00	29.94	C
ATOM	9836	C	THR	C	415	-3.007	84.263	77.024	1.00	29.46	C
ATOM	9837	O	THR	C	415	-2.289	83.620	76.263	1.00	28.43	O
ATOM	9838	CB	THR	C	415	-1.742	83.179	78.890	1.00	29.49	C
ATOM	9839	OG1	THR	C	415	-2.434	81.949	78.687	1.00	28.79	O
ATOM	9840	CG2	THR	C	415	-1.336	83.273	80.370	1.00	31.12	C
ATOM	9841	N	THR	C	416	-4.107	84.885	76.612	1.00	28.90	N
ATOM	9842	CA	THR	C	416	-4.453	84.858	75.192	1.00	28.16	C
ATOM	9843	C	THR	C	416	-3.535	85.877	74.480	1.00	27.57	C
ATOM	9844	O	THR	C	416	-2.968	86.763	75.127	1.00	28.76	O
ATOM	9845	CB	THR	C	416	-5.955	85.130	74.980	1.00	27.20	C
ATOM	9846	OG1	THR	C	416	-6.275	86.459	75.414	1.00	29.30	O
ATOM	9847	CG2	THR	C	416	-6.770	84.105	75.787	1.00	28.80	C
ATOM	9848	N	ALA	C	417	-3.403	85.750	73.155	1.00	27.44	N
ATOM	9849	CA	ALA	C	417	-2.463	86.542	72.360	1.00	26.69	C
ATOM	9850	C	ALA	C	417	-2.815	87.847	71.647	1.00	28.32	C
ATOM	9851	O	ALA	C	417	-1.995	88.770	71.635	1.00	28.09	O
ATOM	9852	CB	ALA	C	417	-1.808	85.618	71.322	1.00	27.77	C
ATOM	9853	N	LEU	C	418	-3.977	87.922	71.005	1.00	29.50	N
ATOM	9854	CA	LEU	C	418	-4.300	89.141	70.267	1.00	29.53	C
ATOM	9855	C	LEU	C	418	-4.544	90.390	71.140	1.00	29.71	C
ATOM	9856	O	LEU	C	418	-4.123	91.496	70.786	1.00	31.31	O
ATOM	9857	CB	LEU	C	418	-5.482	88.875	69.328	1.00	29.12	C
ATOM	9858	CG	LEU	C	418	-5.038	87.986	68.147	1.00	27.75	C
ATOM	9859	CD1	LEU	C	418	-6.198	87.730	67.206	1.00	29.94	C
ATOM	9860	CD2	LEU	C	418	-3.917	88.665	67.407	1.00	27.93	C
ATOM	9861	N	THR	C	419	-5.180	90.209	72.289	1.00	30.88	N
ATOM	9862	CA	THR	C	419	-5.444	91.334	73.182	1.00	32.30	C
ATOM	9863	C	THR	C	419	-4.123	91.901	73.675	1.00	32.83	C
ATOM	9864	O	THR	C	419	-3.306	91.195	74.275	1.00	32.23	O
ATOM	9865	CB	THR	C	419	-6.318	90.886	74.368	1.00	34.29	C
ATOM	9866	OG1	THR	C	419	-7.606	90.501	73.871	1.00	35.61	O
ATOM	9867	CG2	THR	C	419	-6.486	92.013	75.396	1.00	35.23	C
ATOM	9868	N	GLY	C	420	-3.904	93.184	73.403	1.00	32.88	N
ATOM	9869	CA	GLY	C	420	-2.670	93.822	73.819	1.00	32.83	C
ATOM	9870	C	GLY	C	420	-1.533	93.664	72.826	1.00	32.16	C
ATOM	9871	O	GLY	C	420	-0.390	94.042	73.102	1.00	33.66	O
ATOM	9872	N	SER	C	421	-1.837	93.102	71.659	1.00	33.71	N
ATOM	9873	CA	SER	C	421	-0.831	92.888	70.614	1.00	32.32	C
ATOM	9874	C	SER	C	421	-0.609	94.142	69.800	1.00	32.80	C
ATOM	9875	O	SER	C	421	-1.545	94.910	69.591	1.00	31.76	O
ATOM	9876	CB	SER	C	421	-1.294	91.799	69.644	1.00	33.84	C
ATOM	9877	OG	SER	C	421	-2.398	92.259	68.887	1.00	32.43	O
ATOM	9878	N	THR	C	422	0.614	94.333	69.315	1.00	33.11	N
ATOM	9879	CA	THR	C	422	0.891	95.496	68.482	1.00	33.45	C
ATOM	9880	C	THR	C	422	0.078	95.440	67.173	1.00	34.52	C
ATOM	9881	O	THR	C	422	-0.128	96.481	66.532	1.00	34.52	O
ATOM	9882	CB	THR	C	422	2.398	95.650	68.149	1.00	32.75	C
ATOM	9883	OG1	THR	C	422	2.838	94.579	67.297	1.00	35.41	O
ATOM	9884	CG2	THR	C	422	3.223	95.677	69.431	1.00	34.43	C
ATOM	9885	N	GLU	C	423	-0.372	94.241	66.772	1.00	33.78	N
ATOM	9886	CA	GLU	C	423	-1.185	94.089	65.559	1.00	33.79	C
ATOM	9887	C	GLU	C	423	-2.544	94.771	65.786	1.00	35.37	C
ATOM	9888	O	GLU	C	423	-3.044	95.513	64.934	1.00	36.32	O
ATOM	9889	CB	GLU	C	423	-1.420	92.597	65.250	1.00	30.85	C
ATOM	9890	CG	GLU	C	423	-2.615	92.291	64.318	1.00	29.04	C
ATOM	9891	CD	GLU	C	423	-2.446	90.951	63.563	1.00	28.33	C
ATOM	9892	OE1	GLU	C	423	-1.392	90.762	62.935	1.00	25.80	O
ATOM	9893	OE2	GLU	C	423	-3.363	90.104	63.589	1.00	26.47	O
ATOM	9894	N	GLU	C	424	-3.143	94.476	66.936	1.00	36.13	N
ATOM	9895	CA	GLU	C	424	-4.440	95.016	67.326	1.00	36.65	C
ATOM	9896	C	GLU	C	424	-4.387	96.534	67.508	1.00	36.57	C
ATOM	9897	O	GLU	C	424	-5.313	97.260	67.105	1.00	36.76	O
ATOM	9898	CB	GLU	C	424	-4.868	94.338	68.623	1.00	38.76	C
ATOM	9899	CG	GLU	C	424	-5.725	95.169	69.541	1.00	42.79	C
ATOM	9900	CD	GLU	C	424	-5.809	94.565	70.930	1.00	45.17	C
ATOM	9901	OE1	GLU	C	424	-6.527	93.552	71.111	1.00	46.85	O
ATOM	9902	OE2	GLU	C	424	-5.138	95.103	71.840	1.00	45.45	O
ATOM	9903	N	GLY	C	425	-3.289	97.011	68.078	1.00	35.50	N
ATOM	9904	CA	GLY	C	425	-3.153	98.436	68.335	1.00	36.88	C
ATOM	9905	C	GLY	C	425	-2.497	99.276	67.261	1.00	37.55	C
ATOM	9906	O	GLY	C	425	-2.456	100.504	67.386	1.00	37.52	O
ATOM	9907	N	GLN	C	426	-2.007	98.647	66.196	1.00	37.75	N
ATOM	9908	CA	GLN	C	426	-1.322	99.397	65.144	1.00	38.37	C
ATOM	9909	C	GLN	C	426	-1.643	99.030	63.696	1.00	39.55	C
ATOM	9910	O	GLN	C	426	-0.873	99.412	62.802	1.00	40.06	O
ATOM	9911	CB	GLN	C	426	0.186	99.281	65.321	1.00	36.76	C
ATOM	9912	CG	GLN	C	426	0.707	99.585	66.701	1.00	36.42	C
ATOM	9913	CD	GLN	C	426	2.215	99.505	66.740	1.00	36.49	C



ATOM	9914	OE1	GLN	C	426	2.872	99.653	65.702	1.00	36.77	O
ATOM	9915	NE2	GLN	C	426	2.784	99.288	67.934	1.00	36.79	N
ATOM	9916	N	PHE	C	427	-2.751	98.307	63.461	1.00	41.29	N
ATOM	9917	CA	PHE	C	427	-3.154	97.894	62.101	1.00	41.50	C
ATOM	9918	C	PHE	C	427	-4.667	98.001	61.805	1.00	42.06	C
ATOM	9919	O	PHE	C	427	-4.994	98.273	60.624	1.00	43.75	O
ATOM	9920	CB	PHE	C	427	-2.662	96.451	61.798	1.00	39.99	C
ATOM	9921	CG	PHE	C	427	-1.174	96.323	61.743	1.00	38.27	C
ATOM	9922	CD1	PHE	C	427	-0.410	96.442	62.901	1.00	37.38	C
ATOM	9923	CD2	PHE	C	427	-0.522	96.140	60.525	1.00	37.14	C
ATOM	9924	CE1	PHE	C	427	0.988	96.389	62.857	1.00	36.97	C
ATOM	9925	CE2	PHE	C	427	0.875	96.082	60.463	1.00	36.34	C
ATOM	9926	CZ	PHE	C	427	1.633	96.210	61.634	1.00	37.17	C
TER	9927		PHE	C	427						
ATOM	9928	N	ALA	D	1	39.840	50.930	69.135	1.00	51.00	N
ATOM	9929	CA	ALA	D	1	39.794	52.410	69.376	1.00	51.12	C
ATOM	9930	C	ALA	D	1	40.699	53.170	68.403	1.00	50.80	C
ATOM	9931	O	ALA	D	1	41.489	52.570	67.666	1.00	50.59	O
ATOM	9932	CB	ALA	D	1	40.187	52.734	70.838	1.00	51.32	C
ATOM	9933	N	SER	D	2	40.582	54.495	68.427	1.00	49.70	N
ATOM	9934	CA	SER	D	2	41.331	55.387	67.537	1.00	48.53	C
ATOM	9935	C	SER	D	2	41.483	56.693	68.319	1.00	47.12	C
ATOM	9936	O	SER	D	2	40.898	56.828	69.405	1.00	48.29	O
ATOM	9937	CB	SER	D	2	40.488	55.611	66.261	1.00	48.69	C
ATOM	9938	OG	SER	D	2	41.071	56.521	65.340	1.00	49.90	O
ATOM	9939	N	VAL	D	3	42.258	57.649	67.808	1.00	44.77	N
ATOM	9940	CA	VAL	D	3	42.373	58.911	68.529	1.00	41.61	C
ATOM	9941	C	VAL	D	3	41.518	60.004	67.887	1.00	39.28	C
ATOM	9942	O	VAL	D	3	41.385	61.066	68.454	1.00	38.82	O
ATOM	9943	CB	VAL	D	3	43.841	59.426	68.644	1.00	42.10	C
ATOM	9944	CG1	VAL	D	3	44.755	58.292	69.074	1.00	41.23	C
ATOM	9945	CG2	VAL	D	3	44.290	60.055	67.338	1.00	42.12	C
ATOM	9946	N	VAL	D	4	40.919	59.747	66.723	1.00	37.14	N
ATOM	9947	CA	VAL	D	4	40.087	60.783	66.085	1.00	34.30	C
ATOM	9948	C	VAL	D	4	38.992	61.190	67.082	1.00	32.33	C
ATOM	9949	O	VAL	D	4	38.410	60.332	67.753	1.00	30.94	O
ATOM	9950	CB	VAL	D	4	39.420	60.262	64.778	1.00	33.25	C
ATOM	9951	CG1	VAL	D	4	38.615	61.363	64.129	1.00	33.16	C
ATOM	9952	CG2	VAL	D	4	40.474	59.759	63.815	1.00	33.56	C
ATOM	9953	N	GLY	D	5	38.751	62.491	67.207	1.00	30.96	N
ATOM	9954	CA	GLY	D	5	37.743	62.966	68.140	1.00	31.66	C
ATOM	9955	C	GLY	D	5	38.034	62.875	69.638	1.00	31.66	C
ATOM	9956	O	GLY	D	5	37.114	62.970	70.461	1.00	30.23	O
ATOM	9957	N	THR	D	6	39.295	62.678	70.025	1.00	32.52	N
ATOM	9958	CA	THR	D	6	39.603	62.613	71.453	1.00	31.79	C
ATOM	9959	C	THR	D	6	39.326	63.988	72.055	1.00	30.30	C
ATOM	9960	O	THR	D	6	39.631	65.020	71.462	1.00	29.90	O
ATOM	9961	CB	THR	D	6	41.078	62.205	71.705	1.00	34.15	C
ATOM	9962	OG1	THR	D	6	41.265	60.823	71.338	1.00	37.40	O
ATOM	9963	CG2	THR	D	6	41.419	62.363	73.170	1.00	34.86	C
ATOM	9964	N	PRO	D	7	38.723	64.027	73.242	1.00	29.67	N
ATOM	9965	CA	PRO	D	7	38.428	65.330	73.849	1.00	29.91	C
ATOM	9966	C	PRO	D	7	39.690	66.070	74.306	1.00	31.29	C
ATOM	9967	O	PRO	D	7	40.729	65.442	74.552	1.00	31.86	O
ATOM	9968	CB	PRO	D	7	37.560	64.972	75.051	1.00	28.71	C
ATOM	9969	CG	PRO	D	7	37.064	63.589	74.780	1.00	28.28	C
ATOM	9970	CD	PRO	D	7	38.211	62.923	74.063	1.00	28.93	C
ATOM	9971	N	LYS	D	8	39.594	67.391	74.407	1.00	31.57	N
ATOM	9972	CA	LYS	D	8	40.709	68.202	74.917	1.00	32.49	C
ATOM	9973	C	LYS	D	8	40.721	67.918	76.411	1.00	32.36	C
ATOM	9974	O	LYS	D	8	39.699	67.563	76.977	1.00	32.25	O
ATOM	9975	CB	LYS	D	8	40.457	69.706	74.736	1.00	32.21	C
ATOM	9976	CG	LYS	D	8	40.522	70.199	73.330	1.00	33.27	C
ATOM	9977	CD	LYS	D	8	40.099	71.649	73.233	1.00	34.76	C
ATOM	9978	CE	LYS	D	8	40.020	72.058	71.782	1.00	36.26	C
ATOM	9979	NZ	LYS	D	8	39.657	73.490	71.567	1.00	38.05	N
ATOM	9980	N	SER	D	9	41.878	68.065	77.051	1.00	33.29	N
ATOM	9981	CA	SER	D	9	41.969	67.868	78.503	1.00	31.98	C
ATOM	9982	C	SER	D	9	41.345	69.122	79.153	1.00	31.75	C
ATOM	9983	O	SER	D	9	41.176	70.164	78.508	1.00	30.37	O
ATOM	9984	CB	SER	D	9	43.437	67.774	78.939	1.00	33.40	C
ATOM	9985	OG	SER	D	9	44.046	69.050	78.813	1.00	33.04	O
ATOM	9986	N	ALA	D	10	41.017	69.016	80.431	1.00	32.79	N
ATOM	9987	CA	ALA	D	10	40.422	70.112	81.182	1.00	32.48	C
ATOM	9988	C	ALA	D	10	41.364	71.312	81.230	1.00	33.35	C
ATOM	9989	O	ALA	D	10	40.935	72.460	81.191	1.00	32.55	O
ATOM	9990	CB	ALA	D	10	40.109	69.629	82.575	1.00	32.07	C
ATOM	9991	N	GLU	D	11	42.659	71.032	81.313	1.00	34.76	N
ATOM	9992	CA	GLU	D	11	43.681	72.080	81.362	1.00	35.99	C
ATOM	9993	C	GLU	D	11	43.652	72.904	80.079	1.00	35.05	C



ATOM	9994	O	GLU	D	11	43.724	74.139	80.112	1.00	35.16	O
ATOM	9995	CB	GLU	D	11	45.072	71.449	81.512	1.00	38.81	C
ATOM	9996	CG	GLU	D	11	45.317	70.590	82.764	1.00	41.73	C
ATOM	9997	CD	GLU	D	11	44.202	69.577	83.077	1.00	44.77	C
ATOM	9998	OE1	GLU	D	11	43.745	68.840	82.157	1.00	44.86	O
ATOM	9999	OE2	GLU	D	11	43.798	69.512	84.267	1.00	45.64	O
ATOM	10000	N	GLN	D	12	43.563	72.226	78.939	1.00	35.21	N
ATOM	10001	CA	GLN	D	12	43.539	72.935	77.664	1.00	34.81	C
ATOM	10002	C	GLN	D	12	42.354	73.892	77.629	1.00	33.56	C
ATOM	10003	O	GLN	D	12	42.491	75.035	77.205	1.00	32.06	O
ATOM	10004	CB	GLN	D	12	43.420	71.972	76.463	1.00	37.96	C
ATOM	10005	CG	GLN	D	12	44.403	70.804	76.382	1.00	41.15	C
ATOM	10006	CD	GLN	D	12	44.263	70.039	75.060	1.00	44.14	C
ATOM	10007	OE1	GLN	D	12	44.307	68.799	75.018	1.00	44.75	O
ATOM	10008	NE2	GLN	D	12	44.094	70.786	73.966	1.00	45.43	N
ATOM	10009	N	ILE	D	13	41.184	73.408	78.069	1.00	32.54	N
ATOM	10010	CA	ILE	D	13	39.974	74.225	78.066	1.00	32.06	C
ATOM	10011	C	ILE	D	13	40.162	75.432	78.962	1.00	31.61	C
ATOM	10012	O	ILE	D	13	39.920	76.569	78.557	1.00	32.16	O
ATOM	10013	CB	ILE	D	13	38.725	73.431	78.579	1.00	30.95	C
ATOM	10014	CG1	ILE	D	13	38.453	72.230	77.679	1.00	31.11	C
ATOM	10015	CG2	ILE	D	13	37.480	74.344	78.570	1.00	28.90	C
ATOM	10016	CD1	ILE	D	13	37.269	71.379	78.129	1.00	30.19	C
ATOM	10017	N	GLN	D	14	40.593	75.165	80.188	1.00	33.79	N
ATOM	10018	CA	GLN	D	14	40.807	76.215	81.175	1.00	34.87	C
ATOM	10019	C	GLN	D	14	41.719	77.279	80.593	1.00	35.73	C
ATOM	10020	O	GLN	D	14	41.538	78.476	80.825	1.00	33.57	O
ATOM	10021	CB	GLN	D	14	41.438	75.611	82.428	1.00	35.52	C
ATOM	10022	CG	GLN	D	14	41.485	76.571	83.584	1.00	36.45	C
ATOM	10023	CD	GLN	D	14	40.111	77.046	83.935	1.00	36.62	C
ATOM	10024	OE1	GLN	D	14	39.255	76.248	84.319	1.00	37.44	O
ATOM	10025	NE2	GLN	D	14	39.869	78.344	83.788	1.00	36.77	N
ATOM	10026	N	GLN	D	15	42.706	76.838	79.821	1.00	37.14	N
ATOM	10027	CA	GLN	D	15	43.634	77.783	79.224	1.00	39.22	C
ATOM	10028	C	GLN	D	15	42.959	78.713	78.233	1.00	39.99	C
ATOM	10029	O	GLN	D	15	43.178	79.930	78.261	1.00	40.65	O
ATOM	10030	CB	GLN	D	15	44.786	77.051	78.552	1.00	41.37	C
ATOM	10031	CG	GLN	D	15	45.688	77.980	77.750	1.00	45.23	C
ATOM	10032	CD	GLN	D	15	47.104	77.451	77.628	1.00	47.41	C
ATOM	10033	OE1	GLN	D	15	47.316	76.241	77.481	1.00	49.31	O
ATOM	10034	NE2	GLN	D	15	48.085	78.353	77.682	1.00	48.46	N
ATOM	10035	N	GLU	D	16	42.127	78.149	77.362	1.00	39.15	N
ATOM	10036	CA	GLU	D	16	41.441	78.961	76.377	1.00	39.04	C
ATOM	10037	C	GLU	D	16	40.545	79.946	77.084	1.00	37.84	C
ATOM	10038	O	GLU	D	16	40.457	81.107	76.695	1.00	38.24	O
ATOM	10039	CB	GLU	D	16	40.588	78.092	75.464	1.00	41.16	C
ATOM	10040	CG	GLU	D	16	41.350	77.080	74.651	1.00	43.40	C
ATOM	10041	CD	GLU	D	16	40.420	76.337	73.698	1.00	45.83	C
ATOM	10042	OE1	GLU	D	16	39.680	77.024	72.954	1.00	46.49	O
ATOM	10043	OE2	GLU	D	16	40.426	75.081	73.696	1.00	45.86	O
ATOM	10044	N	TRP	D	17	39.853	79.474	78.115	1.00	37.48	N
ATOM	10045	CA	TRP	D	17	38.962	80.351	78.860	1.00	36.55	C
ATOM	10046	C	TRP	D	17	39.807	81.459	79.492	1.00	37.33	C
ATOM	10047	O	TRP	D	17	39.385	82.607	79.541	1.00	36.17	O
ATOM	10048	CB	TRP	D	17	38.207	79.587	79.974	1.00	35.97	C
ATOM	10049	CG	TRP	D	17	37.101	78.644	79.485	1.00	35.18	C
ATOM	10050	CD1	TRP	D	17	36.692	78.457	78.190	1.00	34.08	C
ATOM	10051	CD2	TRP	D	17	36.319	77.731	80.288	1.00	34.15	C
ATOM	10052	NE1	TRP	D	17	35.714	77.487	78.139	1.00	33.80	N
ATOM	10053	CE2	TRP	D	17	35.469	77.023	79.406	1.00	33.75	C
ATOM	10054	CE3	TRP	D	17	36.260	77.445	81.660	1.00	33.26	C
ATOM	10055	CZ2	TRP	D	17	34.573	76.040	79.850	1.00	34.46	C
ATOM	10056	CZ3	TRP	D	17	35.363	76.463	82.109	1.00	34.86	C
ATOM	10057	CH2	TRP	D	17	34.532	75.772	81.199	1.00	32.52	C
ATOM	10058	N	ASP	D	18	41.004	81.105	79.955	1.00	37.59	N
ATOM	10059	CA	ASP	D	18	41.880	82.090	80.592	1.00	39.99	C
ATOM	10060	C	ASP	D	18	42.572	83.084	79.672	1.00	40.28	C
ATOM	10061	O	ASP	D	18	42.749	84.249	80.036	1.00	40.96	O
ATOM	10062	CB	ASP	D	18	42.946	81.384	81.431	1.00	39.83	C
ATOM	10063	CG	ASP	D	18	42.368	80.723	82.662	1.00	40.63	C
ATOM	10064	OD1	ASP	D	18	41.347	81.224	83.194	1.00	41.71	O
ATOM	10065	OD2	ASP	D	18	42.941	79.712	83.110	1.00	41.66	O
ATOM	10066	N	THR	D	19	42.945	82.639	78.478	1.00	40.74	N
ATOM	10067	CA	THR	D	19	43.662	83.505	77.553	1.00	40.08	C
ATOM	10068	C	THR	D	19	42.925	84.063	76.351	1.00	40.21	C
ATOM	10069	O	THR	D	19	43.212	85.184	75.930	1.00	40.44	O
ATOM	10070	CB	THR	D	19	44.939	82.802	77.020	1.00	40.94	C
ATOM	10071	OG1	THR	D	19	44.579	81.607	76.319	1.00	40.27	O
ATOM	10072	CG2	THR	D	19	45.854	82.428	78.163	1.00	40.53	C
ATOM	10073	N	ASN	D	20	41.991	83.311	75.772	1.00	39.54	N



ATOM	10074	CA	ASN	D	20	41.312	83.827	74.596	1.00	38.19	C
ATOM	10075	C	ASN	D	20	40.389	84.969	74.947	1.00	37.53	C
ATOM	10076	O	ASN	D	20	39.551	84.843	75.841	1.00	38.16	O
ATOM	10077	CB	ASN	D	20	40.529	82.734	73.888	1.00	39.56	C
ATOM	10078	CG	ASN	D	20	40.130	83.146	72.500	1.00	39.06	C
ATOM	10079	OD1	ASN	D	20	39.500	84.187	72.304	1.00	39.89	O
ATOM	10080	ND2	ASN	D	20	40.504	82.341	71.522	1.00	41.27	N
ATOM	10081	N	PRO	D	21	40.524	86.102	74.235	1.00	35.76	N
ATOM	10082	CA	PRO	D	21	39.740	87.321	74.422	1.00	35.14	C
ATOM	10083	C	PRO	D	21	38.262	87.091	74.154	1.00	34.71	C
ATOM	10084	O	PRO	D	21	37.423	87.958	74.462	1.00	32.75	O
ATOM	10085	CB	PRO	D	21	40.340	88.292	73.399	1.00	35.91	C
ATOM	10086	CG	PRO	D	21	41.645	87.687	73.045	1.00	36.12	C
ATOM	10087	CD	PRO	D	21	41.362	86.230	73.038	1.00	36.44	C
ATOM	10088	N	ARG	D	22	37.962	85.943	73.539	1.00	33.31	N
ATOM	10089	CA	ARG	D	22	36.575	85.563	73.219	1.00	32.84	C
ATOM	10090	C	ARG	D	22	35.769	85.368	74.506	1.00	33.09	C
ATOM	10091	O	ARG	D	22	34.586	85.711	74.572	1.00	33.78	O
ATOM	10092	CB	ARG	D	22	36.541	84.251	72.416	1.00	32.36	C
ATOM	10093	CG	ARG	D	22	35.141	83.687	72.208	1.00	29.30	C
ATOM	10094	CD	ARG	D	22	34.247	84.681	71.503	1.00	30.05	C
ATOM	10095	NE	ARG	D	22	32.923	84.120	71.246	1.00	29.97	N
ATOM	10096	CZ	ARG	D	22	31.912	84.108	72.113	1.00	29.53	C
ATOM	10097	NH1	ARG	D	22	32.046	84.635	73.315	1.00	27.87	N
ATOM	10098	NH2	ARG	D	22	30.745	83.578	71.763	1.00	28.43	N
ATOM	10099	N	TRP	D	23	36.432	84.809	75.513	1.00	34.03	N
ATOM	10100	CA	TRP	D	23	35.853	84.531	76.823	1.00	34.17	C
ATOM	10101	C	TRP	D	23	36.056	85.680	77.825	1.00	35.80	O
ATOM	10102	O	TRP	D	23	35.710	85.571	79.005	1.00	34.43	O
ATOM	10103	CB	TRP	D	23	36.484	83.241	77.342	1.00	32.44	C
ATOM	10104	CG	TRP	D	23	36.315	82.138	76.342	1.00	31.25	C
ATOM	10105	CD1	TRP	D	23	37.272	81.293	75.881	1.00	29.18	C
ATOM	10106	CD2	TRP	D	23	35.100	81.796	75.650	1.00	29.78	C
ATOM	10107	NE1	TRP	D	23	36.736	80.442	74.938	1.00	30.81	N
ATOM	10108	CE2	TRP	D	23	35.404	80.731	74.778	1.00	29.64	C
ATOM	10109	CE3	TRP	D	23	33.786	82.291	75.689	1.00	28.33	C
ATOM	10110	CZ2	TRP	D	23	34.440	80.143	73.939	1.00	28.98	C
ATOM	10111	CZ3	TRP	D	23	32.823	81.706	74.858	1.00	30.36	C
ATOM	10112	CH2	TRP	D	23	33.164	80.639	73.991	1.00	28.45	C
ATOM	10113	N	LYS	D	24	36.598	86.786	77.322	1.00	37.83	N
ATOM	10114	CA	LYS	D	24	36.882	87.966	78.116	1.00	39.07	C
ATOM	10115	C	LYS	D	24	35.844	88.268	79.170	1.00	39.04	C
ATOM	10116	O	LYS	D	24	36.147	88.236	80.365	1.00	39.81	O
ATOM	10117	CB	LYS	D	24	37.034	89.186	77.189	1.00	41.33	C
ATOM	10118	CG	LYS	D	24	37.634	90.418	77.851	1.00	42.74	C
ATOM	10119	CD	LYS	D	24	36.582	91.467	78.208	1.00	45.11	C
ATOM	10120	CE	LYS	D	24	36.666	92.712	77.313	1.00	43.71	C
ATOM	10121	NZ	LYS	D	24	36.605	92.356	75.872	1.00	44.70	N
ATOM	10122	N	ASP	D	25	34.623	88.568	78.727	1.00	39.46	N
ATOM	10123	CA	ASP	D	25	33.530	88.931	79.630	1.00	38.67	C
ATOM	10124	C	ASP	D	25	32.548	87.796	79.928	1.00	36.85	C
ATOM	10125	O	ASP	D	25	31.415	88.056	80.332	1.00	36.91	O
ATOM	10126	CB	ASP	D	25	32.723	90.085	79.019	1.00	42.02	C
ATOM	10127	CG	ASP	D	25	33.567	91.304	78.717	1.00	43.92	C
ATOM	10128	OD1	ASP	D	25	34.202	91.824	79.661	1.00	47.07	O
ATOM	10129	OD2	ASP	D	25	33.585	91.742	77.544	1.00	44.83	O
ATOM	10130	N	VAL	D	26	32.984	86.557	79.758	1.00	34.54	N
ATOM	10131	CA	VAL	D	26	32.099	85.403	79.934	1.00	31.81	C
ATOM	10132	C	VAL	D	26	32.224	84.659	81.258	1.00	30.30	C
ATOM	10133	O	VAL	D	26	33.261	84.068	81.546	1.00	29.39	O
ATOM	10134	CB	VAL	D	26	32.336	84.364	78.787	1.00	29.40	C
ATOM	10135	CG1	VAL	D	26	31.382	83.140	78.948	1.00	29.21	C
ATOM	10136	CG2	VAL	D	26	32.137	85.021	77.451	1.00	26.97	C
ATOM	10137	N	THR	D	27	31.152	84.672	82.042	1.00	29.83	N
ATOM	10138	CA	THR	D	27	31.119	83.943	83.303	1.00	29.07	C
ATOM	10139	C	THR	D	27	30.602	82.503	83.146	1.00	27.92	C
ATOM	10140	O	THR	D	27	29.591	82.266	82.480	1.00	27.65	O
ATOM	10141	CB	THR	D	27	30.220	84.654	84.315	1.00	29.64	C
ATOM	10142	OG1	THR	D	27	30.816	85.907	84.656	1.00	30.82	O
ATOM	10143	CG2	THR	D	27	30.057	83.817	85.568	1.00	29.25	C
ATOM	10144	N	ARG	D	28	31.301	81.551	83.752	1.00	26.86	N
ATOM	10145	CA	ARG	D	28	30.873	80.153	83.716	1.00	27.41	C
ATOM	10146	C	ARG	D	28	30.804	79.698	85.163	1.00	28.55	C
ATOM	10147	O	ARG	D	28	31.818	79.704	85.864	1.00	27.80	O
ATOM	10148	CB	ARG	D	28	31.865	79.295	82.932	1.00	26.44	C
ATOM	10149	CG	ARG	D	28	31.806	79.510	81.427	1.00	28.01	C
ATOM	10150	CD	ARG	D	28	32.890	78.681	80.759	1.00	29.02	C
ATOM	10151	NE	ARG	D	28	32.777	78.531	79.302	1.00	30.69	N
ATOM	10152	CZ	ARG	D	28	33.222	79.407	78.393	1.00	31.63	C
ATOM	10153	NH1	ARG	D	28	33.809	80.541	78.780	1.00	30.88	N



ATOM	10154	NH2	ARG	D	28	33.154	79.110	77.084	1.00	29.12	N
ATOM	10155	N	THR	D	29	29.618	79.314	85.623	1.00	26.92	N
ATOM	10156	CA	THR	D	29	29.483	78.897	86.999	1.00	27.31	C
ATOM	10157	C	THR	D	29	29.855	77.437	87.203	1.00	27.90	C
ATOM	10158	O	THR	D	29	29.817	76.921	88.318	1.00	29.32	O
ATOM	10159	CB	THR	D	29	28.066	79.204	87.541	1.00	27.84	C
ATOM	10160	OG1	THR	D	29	27.077	78.612	86.695	1.00	25.07	O
ATOM	10161	CG2	THR	D	29	27.824	80.718	87.575	1.00	24.91	C
ATOM	10162	N	TYR	D	30	30.236	76.772	86.125	1.00	26.40	N
ATOM	10163	CA	TYR	D	30	30.674	75.387	86.214	1.00	25.62	C
ATOM	10164	C	TYR	D	30	32.156	75.387	85.833	1.00	25.22	C
ATOM	10165	O	TYR	D	30	32.660	76.389	85.328	1.00	25.17	O
ATOM	10166	CB	TYR	D	30	29.854	74.494	85.258	1.00	24.28	C
ATOM	10167	CG	TYR	D	30	29.706	75.057	83.848	1.00	24.44	C
ATOM	10168	CD1	TYR	D	30	30.738	74.955	82.917	1.00	22.99	C
ATOM	10169	CD2	TYR	D	30	28.530	75.706	83.459	1.00	23.59	C
ATOM	10170	CE1	TYR	D	30	30.607	75.486	81.637	1.00	21.95	C
ATOM	10171	CE2	TYR	D	30	28.390	76.231	82.197	1.00	23.47	C
ATOM	10172	CZ	TYR	D	30	29.439	76.115	81.290	1.00	22.40	C
ATOM	10173	OH	TYR	D	30	29.278	76.646	80.058	1.00	22.04	O
ATOM	10174	N	SER	D	31	32.837	74.269	86.038	1.00	26.35	N
ATOM	10175	CA	SER	D	31	34.267	74.183	85.749	1.00	27.85	C
ATOM	10176	C	SER	D	31	34.618	73.494	84.437	1.00	28.67	C
ATOM	10177	O	SER	D	31	33.783	72.812	83.820	1.00	27.08	O
ATOM	10178	CB	SER	D	31	34.953	73.404	86.845	1.00	28.23	C
ATOM	10179	OG	SER	D	31	34.610	72.027	86.722	1.00	30.86	O
ATOM	10180	N	ALA	D	32	35.874	73.646	84.032	1.00	27.49	N
ATOM	10181	CA	ALA	D	32	36.335	73.000	82.818	1.00	28.66	C
ATOM	10182	C	ALA	D	32	36.245	71.491	83.015	1.00	29.79	C
ATOM	10183	O	ALA	D	32	35.877	70.750	82.094	1.00	30.08	O
ATOM	10184	CB	ALA	D	32	37.789	73.425	82.492	1.00	28.10	C
ATOM	10185	N	GLU	D	33	36.560	71.013	84.214	1.00	29.47	N
ATOM	10186	CA	GLU	D	33	36.495	69.570	84.455	1.00	30.12	C
ATOM	10187	C	GLU	D	33	35.047	69.067	84.284	1.00	28.99	C
ATOM	10188	O	GLU	D	33	34.837	67.953	83.817	1.00	29.66	O
ATOM	10189	CB	GLU	D	33	37.003	69.227	85.866	1.00	32.83	C
ATOM	10190	CG	GLU	D	33	38.473	69.641	86.192	1.00	36.76	C
ATOM	10191	CD	GLU	D	33	38.737	71.171	86.104	1.00	39.80	C
ATOM	10192	OE1	GLU	D	33	37.912	71.985	86.592	1.00	40.05	O
ATOM	10193	OE2	GLU	D	33	39.794	71.561	85.544	1.00	42.99	O
ATOM	10194	N	ASP	D	34	34.067	69.892	84.670	1.00	28.69	N
ATOM	10195	CA	ASP	D	34	32.634	69.552	84.554	1.00	26.27	C
ATOM	10196	C	ASP	D	34	32.294	69.255	83.083	1.00	25.45	C
ATOM	10197	O	ASP	D	34	31.575	68.285	82.774	1.00	22.01	O
ATOM	10198	CB	ASP	D	34	31.759	70.723	85.035	1.00	24.99	C
ATOM	10199	CG	ASP	D	34	31.717	70.851	86.550	1.00	25.85	C
ATOM	10200	OD1	ASP	D	34	31.907	69.835	87.268	1.00	28.10	O
ATOM	10201	OD2	ASP	D	34	31.460	71.974	87.036	1.00	28.27	O
ATOM	10202	N	VAL	D	35	32.821	70.101	82.197	1.00	22.80	N
ATOM	10203	CA	VAL	D	35	32.618	69.983	80.761	1.00	22.94	C
ATOM	10204	C	VAL	D	35	33.172	68.685	80.239	1.00	23.32	C
ATOM	10205	O	VAL	D	35	32.477	67.926	79.524	1.00	21.67	O
ATOM	10206	CB	VAL	D	35	33.260	71.142	79.995	1.00	21.03	C
ATOM	10207	CG1	VAL	D	35	33.154	70.882	78.477	1.00	22.69	C
ATOM	10208	CG2	VAL	D	35	32.537	72.424	80.301	1.00	22.19	C
ATOM	10209	N	VAL	D	36	34.422	68.397	80.601	1.00	23.39	N
ATOM	10210	CA	VAL	D	36	35.060	67.162	80.170	1.00	23.74	C
ATOM	10211	C	VAL	D	36	34.277	65.927	80.622	1.00	23.49	C
ATOM	10212	O	VAL	D	36	34.185	64.939	79.902	1.00	25.41	O
ATOM	10213	CB	VAL	D	36	36.509	67.056	80.748	1.00	25.04	C
ATOM	10214	CG1	VAL	D	36	37.165	65.775	80.283	1.00	25.68	C
ATOM	10215	CG2	VAL	D	36	37.327	68.301	80.346	1.00	25.24	C
ATOM	10216	N	ALA	D	37	33.741	65.978	81.835	1.00	22.15	N
ATOM	10217	CA	ALA	D	37	32.983	64.867	82.387	1.00	22.77	C
ATOM	10218	C	ALA	D	37	31.786	64.506	81.507	1.00	21.45	C
ATOM	10219	O	ALA	D	37	31.362	63.364	81.521	1.00	22.18	O
ATOM	10220	CB	ALA	D	37	32.480	65.207	83.797	1.00	20.33	C
ATOM	10221	N	LEU	D	38	31.243	65.481	80.775	1.00	21.72	N
ATOM	10222	CA	LEU	D	38	30.051	65.224	79.918	1.00	22.70	C
ATOM	10223	C	LEU	D	38	30.331	64.871	78.447	1.00	24.18	C
ATOM	10224	O	LEU	D	38	29.396	64.615	77.658	1.00	22.10	O
ATOM	10225	CB	LEU	D	38	29.134	66.451	79.942	1.00	21.70	C
ATOM	10226	CG	LEU	D	38	28.718	66.896	81.338	1.00	20.54	C
ATOM	10227	CD1	LEU	D	38	28.143	68.293	81.301	1.00	22.43	C
ATOM	10228	CD2	LEU	D	38	27.744	65.855	81.885	1.00	19.75	C
ATOM	10229	N	GLN	D	39	31.603	64.880	78.064	1.00	23.46	N
ATOM	10230	CA	GLN	D	39	31.965	64.630	76.676	1.00	24.44	C
ATOM	10231	C	GLN	D	39	32.195	63.184	76.242	1.00	23.47	C
ATOM	10232	O	GLN	D	39	32.434	62.934	75.073	1.00	25.95	O
ATOM	10233	CB	GLN	D	39	33.197	65.482	76.325	1.00	21.55	C



ATOM	10234	CG	GLN	D	39	32.897	66.958	76.287	1.00	24.07	C
ATOM	10235	CD	GLN	D	39	34.135	67.776	76.007	1.00	27.12	C
ATOM	10236	OE1	GLN	D	39	35.214	67.466	76.528	1.00	28.54	O
ATOM	10237	NE2	GLN	D	39	33.997	68.824	75.201	1.00	26.83	N
ATOM	10238	N	GLY	D	40	32.118	62.231	77.151	1.00	23.72	N
ATOM	10239	CA	GLY	D	40	32.361	60.844	76.761	1.00	25.74	C
ATOM	10240	C	GLY	D	40	33.798	60.706	76.243	1.00	26.93	C
ATOM	10241	O	GLY	D	40	34.674	61.470	76.654	1.00	28.15	O
ATOM	10242	N	SER	D	41	34.068	59.759	75.352	1.00	26.84	N
ATOM	10243	CA	SER	D	41	35.442	59.628	74.846	1.00	28.12	C
ATOM	10244	C	SER	D	41	35.651	60.149	73.421	1.00	27.63	C
ATOM	10245	O	SER	D	41	36.752	60.073	72.866	1.00	26.68	O
ATOM	10246	CB	SER	D	41	35.922	58.179	74.964	1.00	27.45	C
ATOM	10247	OG	SER	D	41	35.058	57.305	74.297	1.00	33.61	O
ATOM	10248	N	VAL	D	42	34.606	60.720	72.837	1.00	26.02	N
ATOM	10249	CA	VAL	D	42	34.703	61.242	71.486	1.00	26.12	C
ATOM	10250	C	VAL	D	42	33.891	62.507	71.365	1.00	24.29	C
ATOM	10251	O	VAL	D	42	32.770	62.582	71.846	1.00	27.32	O
ATOM	10252	CB	VAL	D	42	34.168	60.236	70.461	1.00	27.62	C
ATOM	10253	CG1	VAL	D	42	34.218	60.840	69.045	1.00	26.10	C
ATOM	10254	CG2	VAL	D	42	34.973	58.954	70.539	1.00	28.38	C
ATOM	10255	N	VAL	D	43	34.477	63.518	70.764	1.00	23.82	N
ATOM	10256	CA	VAL	D	43	33.773	64.755	70.552	1.00	23.99	C
ATOM	10257	C	VAL	D	43	33.647	65.000	69.051	1.00	24.84	C
ATOM	10258	O	VAL	D	43	34.640	65.168	68.356	1.00	24.71	O
ATOM	10259	CB	VAL	D	43	34.498	65.956	71.196	1.00	23.71	C
ATOM	10260	CG1	VAL	D	43	33.745	67.231	70.893	1.00	23.09	C
ATOM	10261	CG2	VAL	D	43	34.565	65.759	72.698	1.00	24.32	C
ATOM	10262	N	GLU	D	44	32.432	64.987	68.521	1.00	25.13	N
ATOM	10263	CA	GLU	D	44	32.300	65.278	67.113	1.00	23.44	C
ATOM	10264	C	GLU	D	44	32.662	66.737	66.802	1.00	23.69	C
ATOM	10265	O	GLU	D	44	32.260	67.686	67.507	1.00	23.82	O
ATOM	10266	CB	GLU	D	44	30.868	65.038	66.631	1.00	21.93	C
ATOM	10267	CG	GLU	D	44	30.400	63.588	66.717	1.00	24.39	C
ATOM	10268	CD	GLU	D	44	28.968	63.487	66.259	1.00	23.67	C
ATOM	10269	OE1	GLU	D	44	28.087	63.725	67.103	1.00	24.22	O
ATOM	10270	OE2	GLU	D	44	28.741	63.222	65.063	1.00	21.92	O
ATOM	10271	N	GLU	D	45	33.392	66.917	65.710	1.00	22.99	N
ATOM	10272	CA	GLU	D	45	33.745	68.241	65.255	1.00	23.99	C
ATOM	10273	C	GLU	D	45	32.490	68.809	64.592	1.00	24.62	C
ATOM	10274	O	GLU	D	45	31.787	68.088	63.885	1.00	26.07	O
ATOM	10275	CB	GLU	D	45	34.880	68.121	64.241	1.00	26.61	C
ATOM	10276	CG	GLU	D	45	35.194	69.367	63.453	1.00	28.39	C
ATOM	10277	CD	GLU	D	45	35.690	70.483	64.335	1.00	30.88	C
ATOM	10278	OE1	GLU	D	45	36.105	70.187	65.473	1.00	33.60	O
ATOM	10279	OE2	GLU	D	45	35.676	71.645	63.886	1.00	32.78	O
ATOM	10280	N	HIS	D	46	32.179	70.075	64.845	1.00	23.22	N
ATOM	10281	CA	HIS	D	46	31.015	70.740	64.239	1.00	22.84	C
ATOM	10282	C	HIS	D	46	31.580	71.910	63.409	1.00	21.75	C
ATOM	10283	O	HIS	D	46	31.607	73.074	63.852	1.00	22.47	O
ATOM	10284	CB	HIS	D	46	30.042	71.242	65.320	1.00	21.11	C
ATOM	10285	CG	HIS	D	46	29.445	70.143	66.133	1.00	21.32	C
ATOM	10286	ND1	HIS	D	46	28.661	69.155	65.578	1.00	22.76	N
ATOM	10287	CD2	HIS	D	46	29.593	69.817	67.437	1.00	21.29	C
ATOM	10288	CE1	HIS	D	46	28.361	68.261	66.501	1.00	21.30	C
ATOM	10289	NE2	HIS	D	46	28.917	68.637	67.639	1.00	23.66	N
ATOM	10290	N	THR	D	47	32.009	71.573	62.191	1.00	22.05	N
ATOM	10291	CA	THR	D	47	32.665	72.514	61.301	1.00	21.90	C
ATOM	10292	C	THR	D	47	31.916	73.787	61.043	1.00	23.01	C
ATOM	10293	O	THR	D	47	32.432	74.876	61.317	1.00	24.64	O
ATOM	10294	CB	THR	D	47	33.051	71.797	59.960	1.00	20.64	C
ATOM	10295	OG1	THR	D	47	33.858	70.670	60.265	1.00	21.63	O
ATOM	10296	CG2	THR	D	47	33.830	72.694	59.051	1.00	25.36	C
ATOM	10297	N	LEU	D	48	30.688	73.700	60.536	1.00	21.33	N
ATOM	10298	CA	LEU	D	48	29.993	74.936	60.262	1.00	19.80	C
ATOM	10299	C	LEU	D	48	29.626	75.723	61.532	1.00	19.83	C
ATOM	10300	O	LEU	D	48	29.643	76.952	61.516	1.00	21.58	O
ATOM	10301	CB	LEU	D	48	28.747	74.655	59.405	1.00	19.04	C
ATOM	10302	CG	LEU	D	48	29.050	73.927	58.096	1.00	18.69	C
ATOM	10303	CD1	LEU	D	48	27.753	73.861	57.271	1.00	19.55	C
ATOM	10304	CD2	LEU	D	48	30.115	74.732	57.295	1.00	21.08	C
ATOM	10305	N	ALA	D	49	29.333	75.045	62.640	1.00	18.72	N
ATOM	10306	CA	ALA	D	49	28.991	75.772	63.857	1.00	18.14	C
ATOM	10307	C	ALA	D	49	30.226	76.595	64.337	1.00	19.95	C
ATOM	10308	O	ALA	D	49	30.117	77.747	64.759	1.00	20.06	O
ATOM	10309	CB	ALA	D	49	28.571	74.772	64.954	1.00	17.60	C
ATOM	10310	N	ARG	D	50	31.388	75.985	64.261	1.00	20.92	N
ATOM	10311	CA	ARG	D	50	32.597	76.655	64.707	1.00	23.08	C
ATOM	10312	C	ARG	D	50	32.932	77.788	63.767	1.00	22.41	C
ATOM	10313	O	ARG	D	50	33.035	78.941	64.196	1.00	25.34	O



ATOM	10314	CB	ARG	D	50	33.762	75.672	64.784	1.00	22.81	C
ATOM	10315	CG	ARG	D	50	35.076	76.335	65.271	1.00	23.99	C
ATOM	10316	CD	ARG	D	50	36.252	75.353	65.188	1.00	22.64	C
ATOM	10317	NE	ARG	D	50	35.938	74.078	65.812	1.00	26.25	N
ATOM	10318	CZ	ARG	D	50	35.833	73.879	67.119	1.00	26.06	C
ATOM	10319	NH1	ARG	D	50	36.019	74.895	67.946	1.00	27.53	N
ATOM	10320	NH2	ARG	D	50	35.572	72.658	67.598	1.00	26.74	N
ATOM	10321	N	ARG	D	51	33.088	77.477	62.485	1.00	23.18	N
ATOM	10322	CA	ARG	D	51	33.406	78.509	61.502	1.00	23.65	C
ATOM	10323	C	ARG	D	51	32.404	79.644	61.603	1.00	23.42	C
ATOM	10324	O	ARG	D	51	32.772	80.813	61.676	1.00	23.92	O
ATOM	10325	CB	ARG	D	51	33.369	77.937	60.088	1.00	24.33	C
ATOM	10326	CG	ARG	D	51	34.061	78.831	59.040	1.00	27.40	C
ATOM	10327	CD	ARG	D	51	33.790	78.253	57.657	1.00	27.60	C
ATOM	10328	NE	ARG	D	51	34.534	78.915	56.584	1.00	29.43	N
ATOM	10329	CZ	ARG	D	51	34.098	79.938	55.862	1.00	28.29	C
ATOM	10330	NH1	ARG	D	51	32.898	80.483	56.066	1.00	29.84	N
ATOM	10331	NH2	ARG	D	51	34.867	80.397	54.878	1.00	31.39	N
ATOM	10332	N	GLY	D	52	31.118	79.322	61.634	1.00	22.52	N
ATOM	10333	CA	GLY	D	52	30.122	80.378	61.725	1.00	22.56	C
ATOM	10334	C	GLY	D	52	30.243	81.245	62.973	1.00	22.62	C
ATOM	10335	O	GLY	D	52	30.115	82.465	62.885	1.00	23.35	O
ATOM	10336	N	ALA	D	53	30.460	80.609	64.130	1.00	24.16	N
ATOM	10337	CA	ALA	D	53	30.597	81.327	65.389	1.00	23.45	C
ATOM	10338	C	ALA	D	53	31.837	82.251	65.295	1.00	25.83	C
ATOM	10339	O	ALA	D	53	31.753	83.446	65.608	1.00	25.99	O
ATOM	10340	CB	ALA	D	53	30.748	80.333	66.547	1.00	23.89	C
ATOM	10341	N	GLU	D	54	32.976	81.704	64.878	1.00	26.18	N
ATOM	10342	CA	GLU	D	54	34.166	82.543	64.763	1.00	26.93	C
ATOM	10343	C	GLU	D	54	33.885	83.729	63.852	1.00	27.58	C
ATOM	10344	O	GLU	D	54	34.053	84.864	64.282	1.00	29.08	O
ATOM	10345	CB	GLU	D	54	35.337	81.710	64.288	1.00	28.76	C
ATOM	10346	CG	GLU	D	54	35.852	80.839	65.407	1.00	32.20	C
ATOM	10347	CD	GLU	D	54	36.977	79.953	64.982	1.00	32.96	C
ATOM	10348	OE1	GLU	D	54	37.412	80.038	63.810	1.00	38.76	O
ATOM	10349	OE2	GLU	D	54	37.438	79.168	65.822	1.00	37.42	O
ATOM	10350	N	VAL	D	55	33.389	83.495	62.630	1.00	26.62	N
ATOM	10351	CA	VAL	D	55	33.087	84.587	61.724	1.00	26.85	C
ATOM	10352	C	VAL	D	55	32.137	85.640	62.280	1.00	27.97	C
ATOM	10353	O	VAL	D	55	32.368	86.850	62.112	1.00	28.85	O
ATOM	10354	CB	VAL	D	55	32.502	84.072	60.380	1.00	26.23	C
ATOM	10355	CG1	VAL	D	55	32.054	85.249	59.496	1.00	23.60	C
ATOM	10356	CG2	VAL	D	55	33.522	83.261	59.677	1.00	25.43	C
ATOM	10357	N	LEU	D	56	31.056	85.202	62.923	1.00	26.91	N
ATOM	10358	CA	LEU	D	56	30.096	86.141	63.482	1.00	26.73	C
ATOM	10359	C	LEU	D	56	30.750	87.015	64.562	1.00	28.22	C
ATOM	10360	O	LEU	D	56	30.490	88.212	64.654	1.00	29.02	O
ATOM	10361	CB	LEU	D	56	28.926	85.377	64.089	1.00	24.50	C
ATOM	10362	CG	LEU	D	56	27.842	86.210	64.746	1.00	23.95	C
ATOM	10363	CD1	LEU	D	56	27.163	87.151	63.780	1.00	22.53	C
ATOM	10364	CD2	LEU	D	56	26.833	85.210	65.330	1.00	22.89	C
ATOM	10365	N	TRP	D	57	31.597	86.409	65.374	1.00	30.93	N
ATOM	10366	CA	TRP	D	57	32.253	87.164	66.434	1.00	33.24	C
ATOM	10367	C	TRP	D	57	33.115	88.258	65.762	1.00	34.03	C
ATOM	10368	O	TRP	D	57	32.952	89.458	66.052	1.00	33.21	O
ATOM	10369	CB	TRP	D	57	33.094	86.222	67.300	1.00	33.12	C
ATOM	10370	CG	TRP	D	57	33.581	86.871	68.564	1.00	35.21	C
ATOM	10371	CD1	TRP	D	57	34.870	87.153	68.886	1.00	35.10	C
ATOM	10372	CD2	TRP	D	57	32.778	87.350	69.659	1.00	35.30	C
ATOM	10373	NE1	TRP	D	57	34.930	87.780	70.110	1.00	35.38	N
ATOM	10374	CE2	TRP	D	57	33.661	87.913	70.607	1.00	36.09	C
ATOM	10375	CE3	TRP	D	57	31.396	87.358	69.932	1.00	35.44	C
ATOM	10376	CZ2	TRP	D	57	33.207	88.479	71.817	1.00	35.44	C
ATOM	10377	CZ3	TRP	D	57	30.947	87.915	71.127	1.00	33.42	C
ATOM	10378	CH2	TRP	D	57	31.851	88.469	72.056	1.00	34.63	C
ATOM	10379	N	GLU	D	58	33.996	87.845	64.847	1.00	35.26	N
ATOM	10380	CA	GLU	D	58	34.840	88.791	64.126	1.00	35.32	C
ATOM	10381	C	GLU	D	58	34.033	89.894	63.490	1.00	35.36	C
ATOM	10382	O	GLU	D	58	34.398	91.061	63.591	1.00	35.43	O
ATOM	10383	CB	GLU	D	58	35.615	88.095	63.032	1.00	38.54	C
ATOM	10384	CG	GLU	D	58	36.741	87.243	63.519	1.00	41.85	C
ATOM	10385	CD	GLU	D	58	37.341	86.427	62.392	1.00	45.76	C
ATOM	10386	OE1	GLU	D	58	37.716	87.033	61.355	1.00	46.97	O
ATOM	10387	OE2	GLU	D	58	37.432	85.182	62.540	1.00	48.54	O
ATOM	10388	N	GLN	D	59	32.936	89.545	62.821	1.00	34.58	N
ATOM	10389	CA	GLN	D	59	32.141	90.566	62.171	1.00	32.71	C
ATOM	10390	C	GLN	D	59	31.527	91.532	63.141	1.00	33.42	C
ATOM	10391	O	GLN	D	59	31.513	92.735	62.875	1.00	33.77	O
ATOM	10392	CB	GLN	D	59	31.053	89.949	61.295	1.00	33.98	C
ATOM	10393	CG	GLN	D	59	31.621	89.026	60.213	1.00	34.22	C



ATOM	10394	CD	GLN	D	59	30.527	88.484	59.308	1.00	34.88	C
ATOM	10395	OE1	GLN	D	59	29.392	88.283	59.749	1.00	34.05	O
ATOM	10396	NE2	GLN	D	59	30.861	88.241	58.051	1.00	33.85	N
ATOM	10397	N	LEU	D	60	31.030	91.033	64.269	1.00	32.06	N
ATOM	10398	CA	LEU	D	60	30.415	91.896	65.269	1.00	33.14	C
ATOM	10399	C	LEU	D	60	31.377	93.010	65.738	1.00	34.70	C
ATOM	10400	O	LEU	D	60	30.944	94.126	66.073	1.00	36.47	O
ATOM	10401	CB	LEU	D	60	29.932	91.051	66.458	1.00	31.67	C
ATOM	10402	CG	LEU	D	60	28.600	90.347	66.165	1.00	30.67	C
ATOM	10403	CD1	LEU	D	60	28.262	89.324	67.240	1.00	30.31	C
ATOM	10404	CD2	LEU	D	60	27.524	91.362	66.062	1.00	30.12	C
ATOM	10405	N	HIS	D	61	32.669	92.714	65.736	1.00	36.02	N
ATOM	10406	CA	HIS	D	61	33.664	93.701	66.134	1.00	39.87	C
ATOM	10407	C	HIS	D	61	34.306	94.464	64.960	1.00	40.79	C
ATOM	10408	O	HIS	D	61	34.921	95.505	65.175	1.00	41.09	O
ATOM	10409	CB	HIS	D	61	34.779	93.041	66.945	1.00	39.49	C
ATOM	10410	CG	HIS	D	61	34.326	92.474	68.252	1.00	41.94	C
ATOM	10411	ND1	HIS	D	61	33.732	91.237	68.359	1.00	42.14	N
ATOM	10412	CD2	HIS	D	61	34.410	92.958	69.513	1.00	41.84	C
ATOM	10413	CE1	HIS	D	61	33.476	90.981	69.629	1.00	41.60	C
ATOM	10414	NE2	HIS	D	61	33.878	92.009	70.351	1.00	41.66	N
ATOM	10415	N	ASP	D	62	34.167	93.969	63.728	1.00	41.76	N
ATOM	10416	CA	ASP	D	62	34.803	94.652	62.592	1.00	41.66	C
ATOM	10417	C	ASP	D	62	33.934	95.483	61.686	1.00	41.21	C
ATOM	10418	O	ASP	D	62	34.460	96.294	60.931	1.00	43.58	O
ATOM	10419	CB	ASP	D	62	35.588	93.666	61.727	1.00	41.54	C
ATOM	10420	CG	ASP	D	62	36.686	92.967	62.491	1.00	42.57	C
ATOM	10421	OD1	ASP	D	62	37.140	93.507	63.526	1.00	42.64	O
ATOM	10422	OD2	ASP	D	62	37.106	91.873	62.045	1.00	43.52	O
ATOM	10423	N	LEU	D	63	32.622	95.310	61.744	1.00	40.10	N
ATOM	10424	CA	LEU	D	63	31.723	96.088	60.895	1.00	38.53	C
ATOM	10425	C	LEU	D	63	31.038	97.134	61.754	1.00	38.12	C
ATOM	10426	O	LEU	D	63	31.074	97.046	62.978	1.00	38.53	O
ATOM	10427	CB	LEU	D	63	30.662	95.185	60.244	1.00	37.97	C
ATOM	10428	CG	LEU	D	63	31.193	93.953	59.518	1.00	38.34	C
ATOM	10429	CD1	LEU	D	63	30.026	93.127	58.998	1.00	37.68	C
ATOM	10430	CD2	LEU	D	63	32.090	94.379	58.371	1.00	37.85	C
ATOM	10431	N	GLU	D	64	30.423	98.124	61.119	1.00	38.15	N
ATOM	10432	CA	GLU	D	64	29.734	99.172	61.872	1.00	39.99	C
ATOM	10433	C	GLU	D	64	28.652	98.450	62.672	1.00	38.86	C
ATOM	10434	O	GLU	D	64	28.434	98.722	63.852	1.00	39.88	O
ATOM	10435	CB	GLU	D	64	29.104	100.197	60.923	1.00	41.01	C
ATOM	10436	CG	GLU	D	64	29.199	101.637	61.423	1.00	44.65	C
ATOM	10437	CD	GLU	D	64	28.619	102.638	60.446	1.00	45.98	C
ATOM	10438	OE1	GLU	D	64	29.019	102.611	59.254	1.00	48.03	O
ATOM	10439	OE2	GLU	D	64	27.766	103.456	60.867	1.00	47.71	O
ATOM	10440	N	TRP	D	65	27.984	97.519	61.999	1.00	38.07	N
ATOM	10441	CA	TRP	D	65	26.951	96.696	62.604	1.00	35.41	C
ATOM	10442	C	TRP	D	65	26.633	95.571	61.632	1.00	35.30	C
ATOM	10443	O	TRP	D	65	27.011	95.613	60.449	1.00	34.78	O
ATOM	10444	CB	TRP	D	65	25.695	97.509	62.946	1.00	35.74	C
ATOM	10445	CG	TRP	D	65	24.706	97.801	61.849	1.00	36.79	C
ATOM	10446	CD1	TRP	D	65	23.625	97.043	61.497	1.00	37.09	C
ATOM	10447	CD2	TRP	D	65	24.626	99.000	61.051	1.00	38.09	C
ATOM	10448	NE1	TRP	D	65	22.872	97.690	60.550	1.00	37.62	N
ATOM	10449	CE2	TRP	D	65	23.465	98.893	60.254	1.00	39.00	C
ATOM	10450	CE3	TRP	D	65	25.423	100.153	60.939	1.00	38.37	C
ATOM	10451	CZ2	TRP	D	65	23.076	99.906	59.345	1.00	38.69	C
ATOM	10452	CZ3	TRP	D	65	25.038	101.159	60.042	1.00	38.25	C
ATOM	10453	CH2	TRP	D	65	23.872	101.026	59.255	1.00	38.22	C
ATOM	10454	N	VAL	D	66	25.976	94.543	62.154	1.00	33.14	N
ATOM	10455	CA	VAL	D	66	25.613	93.375	61.361	1.00	31.04	C
ATOM	10456	C	VAL	D	66	24.109	93.326	61.236	1.00	29.96	C
ATOM	10457	O	VAL	D	66	23.430	93.269	62.250	1.00	31.48	O
ATOM	10458	CB	VAL	D	66	26.034	92.089	62.045	1.00	29.30	C
ATOM	10459	CG1	VAL	D	66	25.402	90.882	61.281	1.00	30.45	C
ATOM	10460	CG2	VAL	D	66	27.540	91.966	62.066	1.00	29.21	C
ATOM	10461	N	ASN	D	67	23.576	93.363	60.013	1.00	28.61	N
ATOM	10462	CA	ASN	D	67	22.135	93.262	59.874	1.00	27.77	C
ATOM	10463	C	ASN	D	67	21.734	91.952	59.223	1.00	26.49	C
ATOM	10464	O	ASN	D	67	22.591	91.180	58.771	1.00	25.66	O
ATOM	10465	CB	ASN	D	67	21.526	94.433	59.100	1.00	29.65	C
ATOM	10466	CG	ASN	D	67	22.252	94.739	57.801	1.00	31.33	C
ATOM	10467	OD1	ASN	D	67	22.905	93.882	57.203	1.00	33.99	O
ATOM	10468	ND2	ASN	D	67	22.123	95.979	57.351	1.00	32.11	N
ATOM	10469	N	ALA	D	68	20.432	91.691	59.220	1.00	24.79	N
ATOM	10470	CA	ALA	D	68	19.931	90.461	58.610	1.00	22.47	C
ATOM	10471	C	ALA	D	68	18.422	90.491	58.447	1.00	23.53	C
ATOM	10472	O	ALA	D	68	17.710	91.300	59.072	1.00	24.39	O
ATOM	10473	CB	ALA	D	68	20.345	89.249	59.465	1.00	24.08	C



ATOM	10474	N	LEU	D	69	17.953	89.591	57.583	1.00	22.07	N
ATOM	10475	CA	LEU	D	69	16.539	89.397	57.313	1.00	21.39	C
ATOM	10476	C	LEU	D	69	16.198	87.956	57.741	1.00	21.18	C
ATOM	10477	O	LEU	D	69	17.059	87.092	57.686	1.00	21.26	O
ATOM	10478	CB	LEU	D	69	16.288	89.527	55.821	1.00	20.68	C
ATOM	10479	CG	LEU	D	69	16.682	90.898	55.277	1.00	21.91	C
ATOM	10480	CD1	LEU	D	69	16.389	90.947	53.784	1.00	23.05	C
ATOM	10481	CD2	LEU	D	69	15.923	91.983	56.046	1.00	21.20	C
ATOM	10482	N	GLY	D	70	14.960	87.713	58.162	1.00	22.04	N
ATOM	10483	CA	GLY	D	70	14.588	86.353	58.555	1.00	23.15	C
ATOM	10484	C	GLY	D	70	14.560	85.492	57.311	1.00	22.53	C
ATOM	10485	O	GLY	D	70	14.097	85.962	56.267	1.00	23.02	O
ATOM	10486	N	ALA	D	71	15.085	84.261	57.401	1.00	20.92	N
ATOM	10487	CA	ALA	D	71	15.082	83.322	56.267	1.00	20.33	C
ATOM	10488	C	ALA	D	71	14.349	82.058	56.734	1.00	20.22	C
ATOM	10489	O	ALA	D	71	14.645	81.548	57.821	1.00	18.91	O
ATOM	10490	CB	ALA	D	71	16.500	82.954	55.871	1.00	18.36	C
ATOM	10491	N	LEU	D	72	13.387	81.596	55.938	1.00	20.38	N
ATOM	10492	CA	LEU	D	72	12.662	80.388	56.292	1.00	20.56	C
ATOM	10493	C	LEU	D	72	12.876	79.289	55.260	1.00	19.59	C
ATOM	10494	O	LEU	D	72	12.387	78.176	55.453	1.00	20.31	O
ATOM	10495	CB	LEU	D	72	11.173	80.648	56.473	1.00	21.08	C
ATOM	10496	CG	LEU	D	72	10.404	81.051	55.228	1.00	20.92	C
ATOM	10497	CD1	LEU	D	72	9.242	80.066	55.053	1.00	20.77	C
ATOM	10498	CD2	LEU	D	72	9.894	82.448	55.404	1.00	21.95	C
ATOM	10499	N	THR	D	73	13.529	79.596	54.138	1.00	18.57	N
ATOM	10500	CA	THR	D	73	13.872	78.541	53.194	1.00	20.05	C
ATOM	10501	C	THR	D	73	15.347	78.659	52.829	1.00	20.37	C
ATOM	10502	O	THR	D	73	15.991	79.696	53.063	1.00	23.08	O
ATOM	10503	CB	THR	D	73	13.012	78.518	51.905	1.00	17.83	C
ATOM	10504	OG1	THR	D	73	13.503	79.470	50.945	1.00	19.69	O
ATOM	10505	CG2	THR	D	73	11.583	78.782	52.259	1.00	20.49	C
ATOM	10506	N	GLY	D	74	15.920	77.586	52.311	1.00	21.05	N
ATOM	10507	CA	GLY	D	74	17.328	77.661	51.946	1.00	20.87	C
ATOM	10508	C	GLY	D	74	17.597	78.664	50.811	1.00	21.60	C
ATOM	10509	O	GLY	D	74	18.653	79.354	50.804	1.00	21.10	O
ATOM	10510	N	ASN	D	75	16.678	78.751	49.845	1.00	18.76	N
ATOM	10511	CA	ASN	D	75	16.890	79.684	48.727	1.00	20.54	C
ATOM	10512	C	ASN	D	75	16.835	81.109	49.248	1.00	21.25	C
ATOM	10513	O	ASN	D	75	17.563	81.983	48.746	1.00	23.67	O
ATOM	10514	CB	ASN	D	75	15.825	79.517	47.627	1.00	21.29	C
ATOM	10515	CG	ASN	D	75	16.018	78.252	46.771	1.00	22.42	C
ATOM	10516	OD1	ASN	D	75	16.917	77.428	46.991	1.00	24.62	O
ATOM	10517	ND2	ASN	D	75	15.162	78.106	45.775	1.00	21.02	N
ATOM	10518	N	MET	D	76	15.974	81.355	50.227	1.00	21.70	N
ATOM	10519	CA	MET	D	76	15.827	82.689	50.830	1.00	22.32	C
ATOM	10520	C	MET	D	76	17.167	83.206	51.327	1.00	23.75	C
ATOM	10521	O	MET	D	76	17.502	84.381	51.117	1.00	24.11	O
ATOM	10522	CB	MET	D	76	14.845	82.663	52.016	1.00	22.02	C
ATOM	10523	CG	MET	D	76	13.551	83.399	51.761	1.00	23.31	C
ATOM	10524	SD	MET	D	76	12.360	83.416	53.068	1.00	23.44	S
ATOM	10525	CE	MET	D	76	10.956	83.212	52.123	1.00	18.50	C
ATOM	10526	N	ALA	D	77	17.893	82.333	52.028	1.00	23.70	N
ATOM	10527	CA	ALA	D	77	19.204	82.623	52.598	1.00	23.67	C
ATOM	10528	C	ALA	D	77	20.226	82.854	51.495	1.00	23.93	C
ATOM	10529	O	ALA	D	77	21.055	83.773	51.587	1.00	24.32	O
ATOM	10530	CB	ALA	D	77	19.659	81.459	53.494	1.00	21.64	C
ATOM	10531	N	VAL	D	78	20.174	82.013	50.465	1.00	23.01	N
ATOM	10532	CA	VAL	D	78	21.080	82.129	49.318	1.00	22.09	C
ATOM	10533	C	VAL	D	78	20.921	83.505	48.671	1.00	22.15	C
ATOM	10534	O	VAL	D	78	21.929	84.157	48.371	1.00	22.78	O
ATOM	10535	CB	VAL	D	78	20.820	81.034	48.223	1.00	22.28	C
ATOM	10536	CG1	VAL	D	78	21.592	81.389	46.916	1.00	21.50	C
ATOM	10537	CG2	VAL	D	78	21.284	79.653	48.738	1.00	19.25	C
ATOM	10538	N	GLN	D	79	19.685	83.969	48.496	1.00	22.31	N
ATOM	10539	CA	GLN	D	79	19.454	85.276	47.878	1.00	24.48	C
ATOM	10540	C	GLN	D	79	19.899	86.408	48.787	1.00	27.14	C
ATOM	10541	O	GLN	D	79	20.360	87.461	48.316	1.00	25.89	O
ATOM	10542	CB	GLN	D	79	17.981	85.466	47.546	1.00	26.97	C
ATOM	10543	CG	GLN	D	79	17.495	84.520	46.444	1.00	29.22	C
ATOM	10544	CD	GLN	D	79	18.362	84.605	45.191	1.00	31.73	C
ATOM	10545	OE1	GLN	D	79	18.756	85.694	44.769	1.00	31.82	O
ATOM	10546	NE2	GLN	D	79	18.642	83.461	44.582	1.00	32.53	N
ATOM	10547	N	GLN	D	80	19.713	86.208	50.090	1.00	26.15	N
ATOM	10548	CA	GLN	D	80	20.135	87.200	51.068	1.00	27.02	C
ATOM	10549	C	GLN	D	80	21.635	87.403	50.959	1.00	26.80	C
ATOM	10550	O	GLN	D	80	22.123	88.537	50.974	1.00	29.70	O
ATOM	10551	CB	GLN	D	80	19.772	86.729	52.475	1.00	24.18	C
ATOM	10552	CG	GLN	D	80	18.328	86.834	52.695	1.00	20.46	C
ATOM	10553	CD	GLN	D	80	17.887	86.309	54.021	1.00	21.15	C



ATOM	10554	OE1	GLN	D	80	18.681	85.751	54.783	1.00	22.29	O
ATOM	10555	NE2	GLN	D	80	16.597	86.482	54.317	1.00	20.93	N
ATOM	10556	N	VAL	D	81	22.371	86.312	50.838	1.00	26.27	N
ATOM	10557	CA	VAL	D	81	23.808	86.415	50.716	1.00	27.96	C
ATOM	10558	C	VAL	D	81	24.198	87.008	49.354	1.00	31.30	C
ATOM	10559	O	VAL	D	81	25.032	87.928	49.281	1.00	31.26	O
ATOM	10560	CB	VAL	D	81	24.464	85.042	50.914	1.00	27.74	C
ATOM	10561	CG1	VAL	D	81	25.952	85.131	50.640	1.00	28.47	C
ATOM	10562	CG2	VAL	D	81	24.222	84.547	52.359	1.00	28.24	C
ATOM	10563	N	ARG	D	82	23.583	86.503	48.280	1.00	30.28	N
ATOM	10564	CA	ARG	D	82	23.877	86.990	46.942	1.00	32.28	C
ATOM	10565	C	ARG	D	82	23.743	88.516	46.929	1.00	32.75	C
ATOM	10566	O	ARG	D	82	24.618	89.203	46.394	1.00	34.12	O
ATOM	10567	CB	ARG	D	82	22.921	86.344	45.911	1.00	31.54	C
ATOM	10568	CG	ARG	D	82	23.059	86.865	44.471	1.00	32.22	C
ATOM	10569	CD	ARG	D	82	24.390	86.469	43.804	1.00	33.72	C
ATOM	10570	NE	ARG	D	82	24.384	85.101	43.272	1.00	33.38	N
ATOM	10571	CZ	ARG	D	82	25.465	84.488	42.782	1.00	34.56	C
ATOM	10572	NH1	ARG	D	82	26.637	85.127	42.752	1.00	34.20	N
ATOM	10573	NH2	ARG	D	82	25.397	83.230	42.348	1.00	31.69	N
ATOM	10574	N	ALA	D	83	22.667	89.045	47.523	1.00	31.54	N
ATOM	10575	CA	ALA	D	83	22.455	90.490	47.571	1.00	31.41	C
ATOM	10576	C	ALA	D	83	23.462	91.257	48.443	1.00	30.98	C
ATOM	10577	O	ALA	D	83	23.424	92.485	48.484	1.00	33.12	O
ATOM	10578	CB	ALA	D	83	21.021	90.817	48.035	1.00	30.10	C
ATOM	10579	N	GLY	D	84	24.338	90.550	49.144	1.00	31.41	N
ATOM	10580	CA	GLY	D	84	25.340	91.216	49.968	1.00	30.11	C
ATOM	10581	C	GLY	D	84	25.188	91.181	51.485	1.00	30.35	C
ATOM	10582	O	GLY	D	84	26.037	91.740	52.198	1.00	30.63	O
ATOM	10583	N	LEU	D	85	24.138	90.551	52.008	1.00	27.32	N
ATOM	10584	CA	LEU	D	85	23.972	90.535	53.457	1.00	26.25	C
ATOM	10585	C	LEU	D	85	25.066	89.624	54.011	1.00	25.83	C
ATOM	10586	O	LEU	D	85	25.558	88.775	53.298	1.00	26.65	O
ATOM	10587	CB	LEU	D	85	22.546	90.095	53.833	1.00	25.82	C
ATOM	10588	CG	LEU	D	85	21.505	91.071	53.279	1.00	26.02	C
ATOM	10589	CD1	LEU	D	85	20.124	90.816	53.867	1.00	25.12	C
ATOM	10590	CD2	LEU	D	85	21.952	92.546	53.570	1.00	27.54	C
ATOM	10591	N	LYS	D	86	25.485	89.799	55.262	1.00	26.59	N
ATOM	10592	CA	LYS	D	86	26.582	88.978	55.793	1.00	26.58	C
ATOM	10593	C	LYS	D	86	26.246	88.065	56.975	1.00	25.75	C
ATOM	10594	O	LYS	D	86	27.130	87.556	57.661	1.00	23.18	O
ATOM	10595	CB	LYS	D	86	27.770	89.870	56.143	1.00	29.92	C
ATOM	10596	CG	LYS	D	86	28.323	90.584	54.893	1.00	32.10	C
ATOM	10597	CD	LYS	D	86	29.818	90.797	54.969	1.00	35.43	C
ATOM	10598	CE	LYS	D	86	30.295	91.528	53.697	1.00	37.93	C
ATOM	10599	NZ	LYS	D	86	31.721	91.955	53.759	1.00	38.07	N
ATOM	10600	N	ALA	D	87	24.954	87.859	57.186	1.00	25.85	N
ATOM	10601	CA	ALA	D	87	24.486	86.968	58.247	1.00	24.99	C
ATOM	10602	C	ALA	D	87	23.047	86.627	57.899	1.00	26.00	C
ATOM	10603	O	ALA	D	87	22.384	87.340	57.125	1.00	26.52	O
ATOM	10604	CB	ALA	D	87	24.545	87.666	59.590	1.00	24.58	C
ATOM	10605	N	ILE	D	88	22.561	85.531	58.478	1.00	25.13	N
ATOM	10606	CA	ILE	D	88	21.185	85.096	58.233	1.00	23.69	C
ATOM	10607	C	ILE	D	88	20.474	85.028	59.579	1.00	20.88	C
ATOM	10608	O	ILE	D	88	21.069	84.616	60.556	1.00	23.18	O
ATOM	10609	CB	ILE	D	88	21.124	83.659	57.565	1.00	22.46	C
ATOM	10610	CG1	ILE	D	88	21.711	83.686	56.158	1.00	23.66	C
ATOM	10611	CG2	ILE	D	88	19.648	83.201	57.450	1.00	24.80	C
ATOM	10612	CD1	ILE	D	88	23.088	83.121	56.080	1.00	25.43	C
ATOM	10613	N	TYR	D	89	19.222	85.443	59.629	1.00	21.56	N
ATOM	10614	CA	TYR	D	89	18.461	85.355	60.867	1.00	21.80	C
ATOM	10615	C	TYR	D	89	17.434	84.235	60.656	1.00	20.91	C
ATOM	10616	O	TYR	D	89	16.764	84.221	59.640	1.00	22.34	O
ATOM	10617	CB	TYR	D	89	17.677	86.632	61.172	1.00	21.46	C
ATOM	10618	CG	TYR	D	89	16.863	86.474	62.430	1.00	20.13	C
ATOM	10619	CD1	TYR	D	89	17.485	86.250	63.652	1.00	22.03	C
ATOM	10620	CD2	TYR	D	89	15.467	86.495	62.400	1.00	20.12	C
ATOM	10621	CE1	TYR	D	89	16.724	86.054	64.823	1.00	20.87	C
ATOM	10622	CE2	TYR	D	89	14.703	86.289	63.544	1.00	19.72	C
ATOM	10623	CZ	TYR	D	89	15.334	86.073	64.749	1.00	21.54	C
ATOM	10624	OH	TYR	D	89	14.551	85.904	65.880	1.00	26.36	O
ATOM	10625	N	LEU	D	90	17.304	83.329	61.625	1.00	20.49	N
ATOM	10626	CA	LEU	D	90	16.340	82.230	61.538	1.00	19.22	C
ATOM	10627	C	LEU	D	90	15.288	82.444	62.646	1.00	19.95	C
ATOM	10628	O	LEU	D	90	15.512	82.111	63.815	1.00	21.47	O
ATOM	10629	CB	LEU	D	90	17.114	80.926	61.739	1.00	21.18	C
ATOM	10630	CG	LEU	D	90	16.585	79.501	61.533	1.00	24.91	C
ATOM	10631	CD1	LEU	D	90	15.109	79.498	61.420	1.00	20.12	C
ATOM	10632	CD2	LEU	D	90	17.250	78.884	60.353	1.00	25.11	C
ATOM	10633	N	SER	D	91	14.167	83.033	62.253	1.00	18.87	N



ATOM	10634	CA	SER	D	91	13.025	83.378	63.098	1.00	19.48	C
ATOM	10635	C	SER	D	91	12.242	82.121	63.435	1.00	18.80	C
ATOM	10636	O	SER	D	91	12.062	81.295	62.557	1.00	19.69	O
ATOM	10637	CB	SER	D	91	12.113	84.313	62.296	1.00	18.01	C
ATOM	10638	OG	SER	D	91	10.813	84.423	62.871	1.00	23.56	O
ATOM	10639	N	GLY	D	92	11.793	82.005	64.682	1.00	18.56	N
ATOM	10640	CA	GLY	D	92	10.993	80.864	65.115	1.00	19.07	C
ATOM	10641	C	GLY	D	92	9.551	81.156	64.749	1.00	19.65	C
ATOM	10642	O	GLY	D	92	8.732	80.238	64.517	1.00	20.98	O
ATOM	10643	N	TRP	D	93	9.221	82.450	64.689	1.00	17.43	N
ATOM	10644	CA	TRP	D	93	7.899	82.895	64.294	1.00	18.71	C
ATOM	10645	C	TRP	D	93	7.652	82.354	62.872	1.00	17.63	C
ATOM	10646	O	TRP	D	93	6.589	81.773	62.593	1.00	18.45	O
ATOM	10647	CB	TRP	D	93	7.855	84.455	64.256	1.00	19.24	C
ATOM	10648	CG	TRP	D	93	6.488	85.050	64.027	1.00	19.83	C
ATOM	10649	CD1	TRP	D	93	5.667	85.597	64.971	1.00	22.03	C
ATOM	10650	CD2	TRP	D	93	5.732	85.036	62.803	1.00	21.00	C
ATOM	10651	NE1	TRP	D	93	4.446	85.908	64.416	1.00	21.72	N
ATOM	10652	CE2	TRP	D	93	4.462	85.575	63.091	1.00	20.74	C
ATOM	10653	CE3	TRP	D	93	6.005	84.607	61.495	1.00	20.95	C
ATOM	10654	CZ2	TRP	D	93	3.462	85.696	62.120	1.00	23.36	C
ATOM	10655	CZ3	TRP	D	93	5.019	84.727	60.536	1.00	21.87	C
ATOM	10656	CH2	TRP	D	93	3.764	85.260	60.846	1.00	22.91	C
ATOM	10657	N	GLN	D	94	8.616	82.555	61.970	1.00	16.26	N
ATOM	10658	CA	GLN	D	94	8.441	82.097	60.593	1.00	17.18	C
ATOM	10659	C	GLN	D	94	8.391	80.584	60.521	1.00	16.26	C
ATOM	10660	O	GLN	D	94	7.649	80.020	59.707	1.00	16.40	O
ATOM	10661	CB	GLN	D	94	9.551	82.616	59.673	1.00	19.53	C
ATOM	10662	CG	GLN	D	94	9.575	84.149	59.618	1.00	21.18	C
ATOM	10663	CD	GLN	D	94	10.559	84.706	58.625	1.00	19.75	C
ATOM	10664	OE1	GLN	D	94	11.669	84.193	58.455	1.00	22.66	O
ATOM	10665	NE2	GLN	D	94	10.165	85.788	57.964	1.00	22.13	N
ATOM	10666	N	VAL	D	95	9.174	79.928	61.368	1.00	16.91	N
ATOM	10667	CA	VAL	D	95	9.173	78.471	61.379	1.00	15.39	C
ATOM	10668	C	VAL	D	95	7.776	78.022	61.794	1.00	15.25	C
ATOM	10669	O	VAL	D	95	7.205	77.117	61.184	1.00	17.26	O
ATOM	10670	CB	VAL	D	95	10.303	77.940	62.301	1.00	17.19	C
ATOM	10671	CG1	VAL	D	95	10.046	76.438	62.731	1.00	14.28	C
ATOM	10672	CG2	VAL	D	95	11.606	78.039	61.528	1.00	14.03	C
ATOM	10673	N	ALA	D	96	7.205	78.679	62.799	1.00	16.00	N
ATOM	10674	CA	ALA	D	96	5.848	78.355	63.248	1.00	17.58	C
ATOM	10675	C	ALA	D	96	4.803	78.508	62.136	1.00	18.12	C
ATOM	10676	O	ALA	D	96	3.951	77.651	61.931	1.00	19.30	O
ATOM	10677	CB	ALA	D	96	5.458	79.271	64.422	1.00	16.94	C
ATOM	10678	N	GLY	D	97	4.866	79.633	61.439	1.00	18.63	N
ATOM	10679	CA	GLY	D	97	3.895	79.908	60.403	1.00	18.42	C
ATOM	10680	C	GLY	D	97	4.071	79.217	59.074	1.00	18.63	C
ATOM	10681	O	GLY	D	97	3.082	79.028	58.391	1.00	19.41	O
ATOM	10682	N	ASP	D	98	5.270	78.783	58.703	1.00	17.21	N
ATOM	10683	CA	ASP	D	98	5.368	78.171	57.371	1.00	17.87	C
ATOM	10684	C	ASP	D	98	6.518	77.188	57.142	1.00	15.99	C
ATOM	10685	O	ASP	D	98	6.754	76.800	55.990	1.00	16.95	O
ATOM	10686	CB	ASP	D	98	5.450	79.317	56.332	1.00	18.44	C
ATOM	10687	CG	ASP	D	98	4.979	78.921	54.926	1.00	19.62	C
ATOM	10688	OD1	ASP	D	98	4.093	78.043	54.803	1.00	19.98	O
ATOM	10689	OD2	ASP	D	98	5.483	79.528	53.942	1.00	18.57	O
ATOM	10690	N	ALA	D	99	7.230	76.767	58.204	1.00	16.94	N
ATOM	10691	CA	ALA	D	99	8.353	75.851	58.015	1.00	15.80	C
ATOM	10692	C	ALA	D	99	8.717	75.003	59.218	1.00	14.78	C
ATOM	10693	O	ALA	D	99	9.881	74.936	59.591	1.00	14.76	O
ATOM	10694	CB	ALA	D	99	9.621	76.640	57.527	1.00	14.53	C
ATOM	10695	N	ASN	D	100	7.737	74.357	59.847	1.00	13.26	N
ATOM	10696	CA	ASN	D	100	8.073	73.524	61.011	1.00	13.93	C
ATOM	10697	C	ASN	D	100	7.705	72.059	60.749	1.00	15.76	C
ATOM	10698	O	ASN	D	100	6.913	71.762	59.817	1.00	14.10	O
ATOM	10699	CB	ASN	D	100	7.395	74.038	62.296	1.00	14.12	C
ATOM	10700	CG	ASN	D	100	5.876	73.889	62.274	1.00	15.58	C
ATOM	10701	OD1	ASN	D	100	5.132	74.852	61.949	1.00	18.42	O
ATOM	10702	ND2	ASN	D	100	5.402	72.712	62.622	1.00	11.58	N
ATOM	10703	N	LEU	D	101	8.247	71.160	61.577	1.00	14.43	N
ATOM	10704	CA	LEU	D	101	8.069	69.721	61.382	1.00	14.43	C
ATOM	10705	C	LEU	D	101	6.706	69.070	61.619	1.00	12.52	C
ATOM	10706	O	LEU	D	101	6.548	67.885	61.279	1.00	12.16	O
ATOM	10707	CB	LEU	D	101	9.138	68.974	62.197	1.00	12.27	C
ATOM	10708	CG	LEU	D	101	10.526	69.406	61.713	1.00	13.98	C
ATOM	10709	CD1	LEU	D	101	11.589	68.838	62.660	1.00	10.88	C
ATOM	10710	CD2	LEU	D	101	10.777	68.950	60.285	1.00	15.53	C
ATOM	10711	N	SER	D	102	5.731	69.822	62.147	1.00	13.14	N
ATOM	10712	CA	SER	D	102	4.364	69.318	62.355	1.00	14.10	C
ATOM	10713	C	SER	D	102	3.606	69.422	61.005	1.00	15.24	C



ATOM	10714	O	SER	D	102	2.592	68.753	60.780	1.00	13.77	O
ATOM	10715	CB	SER	D	102	3.610	70.193	63.389	1.00	16.04	C
ATOM	10716	OG	SER	D	102	3.236	71.459	62.798	1.00	16.77	O
ATOM	10717	N	GLY	D	103	4.108	70.275	60.128	1.00	14.00	N
ATOM	10718	CA	GLY	D	103	3.483	70.518	58.843	1.00	15.11	C
ATOM	10719	C	GLY	D	103	2.340	71.525	58.998	1.00	13.58	C
ATOM	10720	O	GLY	D	103	1.745	71.934	58.006	1.00	16.66	O
ATOM	10721	N	HIS	D	104	2.036	71.937	60.227	1.00	16.75	N
ATOM	10722	CA	HIS	D	104	0.914	72.874	60.461	1.00	15.50	C
ATOM	10723	C	HIS	D	104	1.311	74.352	60.467	1.00	16.87	C
ATOM	10724	O	HIS	D	104	2.486	74.711	60.642	1.00	15.14	O
ATOM	10725	CB	HIS	D	104	0.203	72.526	61.783	1.00	15.00	C
ATOM	10726	CG	HIS	D	104	-0.675	71.300	61.697	1.00	17.95	C
ATOM	10727	ND1	HIS	D	104	-1.749	71.203	60.835	1.00	18.73	N
ATOM	10728	CD2	HIS	D	104	-0.601	70.104	62.330	1.00	17.76	C
ATOM	10729	CE1	HIS	D	104	-2.295	70.002	60.938	1.00	18.56	C
ATOM	10730	NE2	HIS	D	104	-1.613	69.309	61.837	1.00	20.87	N
ATOM	10731	N	THR	D	105	0.317	75.215	60.258	1.00	15.63	N
ATOM	10732	CA	THR	D	105	0.559	76.656	60.330	1.00	17.89	C
ATOM	10733	C	THR	D	105	0.230	77.082	61.785	1.00	17.29	C
ATOM	10734	O	THR	D	105	-0.855	76.769	62.320	1.00	18.18	O
ATOM	10735	CB	THR	D	105	-0.351	77.454	59.333	1.00	17.57	C
ATOM	10736	OG1	THR	D	105	0.102	77.234	57.988	1.00	20.05	O
ATOM	10737	CG2	THR	D	105	-0.234	78.974	59.604	1.00	18.97	C
ATOM	10738	N	TYR	D	106	1.170	77.741	62.453	1.00	16.14	N
ATOM	10739	CA	TYR	D	106	0.932	78.133	63.832	1.00	17.79	C
ATOM	10740	C	TYR	D	106	1.313	79.540	64.204	1.00	17.59	C
ATOM	10741	O	TYR	D	106	2.215	80.143	63.609	1.00	18.93	O
ATOM	10742	CB	TYR	D	106	1.734	77.297	64.835	1.00	16.85	C
ATOM	10743	CG	TYR	D	106	1.434	75.847	64.926	1.00	18.35	C
ATOM	10744	CD1	TYR	D	106	0.139	75.381	65.193	1.00	16.21	C
ATOM	10745	CD2	TYR	D	106	2.476	74.923	64.844	1.00	16.39	C
ATOM	10746	CE1	TYR	D	106	-0.102	74.011	65.388	1.00	18.38	C
ATOM	10747	CE2	TYR	D	106	2.251	73.580	65.035	1.00	17.57	C
ATOM	10748	CZ	TYR	D	106	0.964	73.121	65.311	1.00	16.57	C
ATOM	10749	OH	TYR	D	106	0.785	71.774	65.531	1.00	15.82	O
ATOM	10750	N	PRO	D	107	0.612	80.064	65.225	1.00	18.33	N
ATOM	10751	CA	PRO	D	107	0.834	81.392	65.785	1.00	18.22	C
ATOM	10752	C	PRO	D	107	2.141	81.159	66.566	1.00	19.27	C
ATOM	10753	O	PRO	D	107	2.519	79.998	66.848	1.00	18.53	O
ATOM	10754	CB	PRO	D	107	-0.391	81.615	66.687	1.00	16.78	C
ATOM	10755	CG	PRO	D	107	-0.986	80.273	66.931	1.00	19.60	C
ATOM	10756	CD	PRO	D	107	-0.694	79.510	65.652	1.00	16.67	C
ATOM	10757	N	ASP	D	108	2.801	82.236	66.934	1.00	19.01	N
ATOM	10758	CA	ASP	D	108	4.088	82.190	67.595	1.00	20.69	C
ATOM	10759	C	ASP	D	108	3.957	81.940	69.097	1.00	20.40	C
ATOM	10760	O	ASP	D	108	4.032	82.857	69.922	1.00	20.10	O
ATOM	10761	CB	ASP	D	108	4.795	83.505	67.267	1.00	22.87	C
ATOM	10762	CG	ASP	D	108	6.272	83.464	67.549	1.00	24.50	C
ATOM	10763	OD1	ASP	D	108	6.838	82.347	67.582	1.00	27.83	O
ATOM	10764	OD2	ASP	D	108	6.874	84.549	67.718	1.00	25.82	O
ATOM	10765	N	GLN	D	109	3.739	80.672	69.453	1.00	19.51	N
ATOM	10766	CA	GLN	D	109	3.546	80.299	70.835	1.00	19.68	C
ATOM	10767	C	GLN	D	109	4.255	79.009	71.228	1.00	19.12	C
ATOM	10768	O	GLN	D	109	3.779	78.280	72.098	1.00	19.82	O
ATOM	10769	CB	GLN	D	109	2.050	80.169	71.100	1.00	21.32	C
ATOM	10770	CG	GLN	D	109	1.271	81.533	70.872	1.00	21.04	C
ATOM	10771	CD	GLN	D	109	-0.215	81.445	71.281	1.00	22.80	C
ATOM	10772	OE1	GLN	D	109	-0.541	81.245	72.454	1.00	26.34	O
ATOM	10773	NE2	GLN	D	109	-1.110	81.576	70.308	1.00	23.27	N
ATOM	10774	N	SER	D	110	5.369	78.740	70.568	1.00	19.39	N
ATOM	10775	CA	SER	D	110	6.146	77.530	70.837	1.00	19.13	C
ATOM	10776	C	SER	D	110	5.292	76.299	70.688	1.00	16.84	C
ATOM	10777	O	SER	D	110	5.348	75.429	71.541	1.00	18.15	O
ATOM	10778	CB	SER	D	110	6.710	77.549	72.254	1.00	20.12	C
ATOM	10779	OG	SER	D	110	7.826	78.424	72.297	1.00	24.25	O
ATOM	10780	N	LEU	D	111	4.505	76.215	69.618	1.00	17.41	N
ATOM	10781	CA	LEU	D	111	3.638	75.035	69.434	1.00	16.30	C
ATOM	10782	C	LEU	D	111	4.252	73.927	68.578	1.00	14.74	C
ATOM	10783	O	LEU	D	111	3.813	72.784	68.684	1.00	16.64	O
ATOM	10784	CB	LEU	D	111	2.271	75.449	68.792	1.00	16.99	C
ATOM	10785	CG	LEU	D	111	1.289	76.291	69.650	1.00	17.91	C
ATOM	10786	CD1	LEU	D	111	0.106	76.766	68.821	1.00	18.12	C
ATOM	10787	CD2	LEU	D	111	0.747	75.474	70.798	1.00	20.26	C
ATOM	10788	N	TYR	D	112	5.255	74.245	67.761	1.00	13.33	N
ATOM	10789	CA	TYR	D	112	5.852	73.283	66.820	1.00	12.64	C
ATOM	10790	C	TYR	D	112	6.917	72.391	67.498	1.00	12.62	C
ATOM	10791	O	TYR	D	112	7.325	72.698	68.629	1.00	12.79	O
ATOM	10792	CB	TYR	D	112	6.435	74.050	65.616	1.00	10.84	C
ATOM	10793	CG	TYR	D	112	7.512	75.064	65.983	1.00	15.38	C



ATOM	10794	CD1	TYR	D	112	8.800	74.652	66.272	1.00	14.04	C
ATOM	10795	CD2	TYR	D	112	7.237	76.466	66.000	1.00	17.00	C
ATOM	10796	CE1	TYR	D	112	9.822	75.573	66.579	1.00	14.71	C
ATOM	10797	CE2	TYR	D	112	8.248	77.390	66.285	1.00	15.86	C
ATOM	10798	CZ	TYR	D	112	9.543	76.938	66.583	1.00	16.99	C
ATOM	10799	OH	TYR	D	112	10.558	77.811	66.933	1.00	16.31	O
ATOM	10800	N	PRO	D	113	7.318	71.267	66.852	1.00	11.55	N
ATOM	10801	CA	PRO	D	113	8.325	70.351	67.436	1.00	13.05	C
ATOM	10802	C	PRO	D	113	9.669	71.044	67.650	1.00	12.93	C
ATOM	10803	O	PRO	D	113	10.146	71.755	66.761	1.00	12.47	O
ATOM	10804	CB	PRO	D	113	8.406	69.216	66.427	1.00	12.96	C
ATOM	10805	CG	PRO	D	113	7.005	69.194	65.801	1.00	11.80	C
ATOM	10806	CD	PRO	D	113	6.790	70.712	65.585	1.00	13.06	C
ATOM	10807	N	ALA	D	114	10.259	70.799	68.827	1.00	15.11	N
ATOM	10808	CA	ALA	D	114	11.494	71.437	69.259	1.00	14.61	C
ATOM	10809	C	ALA	D	114	12.679	71.316	68.358	1.00	15.59	C
ATOM	10810	O	ALA	D	114	13.612	72.116	68.493	1.00	15.64	O
ATOM	10811	CB	ALA	D	114	11.885	70.947	70.645	1.00	15.70	C
ATOM	10812	N	ASN	D	115	12.686	70.338	67.453	1.00	13.87	N
ATOM	10813	CA	ASN	D	115	13.819	70.198	66.542	1.00	12.61	C
ATOM	10814	C	ASN	D	115	13.584	70.898	65.192	1.00	11.00	C
ATOM	10815	O	ASN	D	115	14.325	70.693	64.251	1.00	13.74	O
ATOM	10816	CB	ASN	D	115	14.184	68.679	66.378	1.00	13.24	C
ATOM	10817	CG	ASN	D	115	13.071	67.864	65.770	1.00	16.59	C
ATOM	10818	OD1	ASN	D	115	11.868	68.178	65.936	1.00	10.45	O
ATOM	10819	ND2	ASN	D	115	13.450	66.784	65.081	1.00	11.32	N
ATOM	10820	N	SER	D	116	12.537	71.737	65.095	1.00	11.71	N
ATOM	10821	CA	SER	D	116	12.238	72.398	63.834	1.00	11.20	C
ATOM	10822	C	SER	D	116	13.275	73.432	63.423	1.00	12.02	C
ATOM	10823	O	SER	D	116	13.687	73.491	62.262	1.00	12.62	O
ATOM	10824	CB	SER	D	116	10.871	73.087	63.877	1.00	9.19	C
ATOM	10825	OG	SER	D	116	9.806	72.083	63.975	1.00	9.71	O
ATOM	10826	N	VAL	D	117	13.658	74.278	64.363	1.00	12.06	N
ATOM	10827	CA	VAL	D	117	14.624	75.307	63.985	1.00	13.08	C
ATOM	10828	C	VAL	D	117	15.948	74.637	63.630	1.00	11.98	C
ATOM	10829	O	VAL	D	117	16.555	75.012	62.652	1.00	13.07	O
ATOM	10830	CB	VAL	D	117	14.782	76.428	65.064	1.00	11.96	C
ATOM	10831	CG1	VAL	D	117	15.948	77.385	64.658	1.00	12.00	C
ATOM	10832	CG2	VAL	D	117	13.533	77.272	65.112	1.00	12.72	C
ATOM	10833	N	PRO	D	118	16.403	73.641	64.398	1.00	14.73	N
ATOM	10834	CA	PRO	D	118	17.678	73.026	63.973	1.00	14.65	C
ATOM	10835	C	PRO	D	118	17.608	72.483	62.529	1.00	15.57	C
ATOM	10836	O	PRO	D	118	18.551	72.584	61.735	1.00	15.23	O
ATOM	10837	CB	PRO	D	118	17.881	71.910	64.993	1.00	16.19	C
ATOM	10838	CG	PRO	D	118	17.313	72.491	66.239	1.00	16.07	C
ATOM	10839	CD	PRO	D	118	16.055	73.260	65.779	1.00	14.15	C
ATOM	10840	N	GLN	D	119	16.479	71.867	62.169	1.00	15.31	N
ATOM	10841	CA	GLN	D	119	16.365	71.361	60.808	1.00	15.46	C
ATOM	10842	C	GLN	D	119	16.475	72.498	59.793	1.00	14.52	C
ATOM	10843	O	GLN	D	119	17.012	72.299	58.717	1.00	15.84	O
ATOM	10844	CB	GLN	D	119	15.031	70.647	60.599	1.00	17.92	C
ATOM	10845	CG	GLN	D	119	14.971	69.209	61.127	1.00	23.31	C
ATOM	10846	CD	GLN	D	119	16.123	68.353	60.596	1.00	27.35	C
ATOM	10847	OE1	GLN	D	119	17.198	68.266	61.227	1.00	30.27	O
ATOM	10848	NE2	GLN	D	119	15.927	67.753	59.417	1.00	28.19	N
ATOM	10849	N	VAL	D	120	15.950	73.680	60.119	1.00	15.08	N
ATOM	10850	CA	VAL	D	120	16.014	74.799	59.179	1.00	15.61	C
ATOM	10851	C	VAL	D	120	17.438	75.341	59.138	1.00	14.17	C
ATOM	10852	O	VAL	D	120	17.904	75.786	58.076	1.00	16.28	O
ATOM	10853	CB	VAL	D	120	14.957	75.912	59.493	1.00	15.83	C
ATOM	10854	CG1	VAL	D	120	15.069	77.028	58.448	1.00	20.70	C
ATOM	10855	CG2	VAL	D	120	13.522	75.322	59.346	1.00	16.90	C
ATOM	10856	N	VAL	D	121	18.142	75.292	60.261	1.00	15.60	N
ATOM	10857	CA	VAL	D	121	19.521	75.706	60.233	1.00	15.97	C
ATOM	10858	C	VAL	D	121	20.276	74.766	59.292	1.00	15.05	C
ATOM	10859	O	VAL	D	121	21.059	75.237	58.460	1.00	17.77	O
ATOM	10860	CB	VAL	D	121	20.182	75.638	61.629	1.00	17.54	C
ATOM	10861	CG1	VAL	D	121	21.686	75.846	61.494	1.00	14.69	C
ATOM	10862	CG2	VAL	D	121	19.570	76.700	62.545	1.00	14.46	C
ATOM	10863	N	ARG	D	122	20.067	73.438	59.408	1.00	14.81	N
ATOM	10864	CA	ARG	D	122	20.787	72.514	58.536	1.00	13.43	C
ATOM	10865	C	ARG	D	122	20.392	72.795	57.091	1.00	12.70	C
ATOM	10866	O	ARG	D	122	21.232	72.737	56.189	1.00	15.95	O
ATOM	10867	CB	ARG	D	122	20.482	71.028	58.895	1.00	13.42	C
ATOM	10868	CG	ARG	D	122	21.284	70.003	58.096	1.00	14.99	C
ATOM	10869	CD	ARG	D	122	22.745	70.079	58.464	1.00	17.61	C
ATOM	10870	NE	ARG	D	122	23.492	70.772	57.406	1.00	16.74	N
ATOM	10871	CZ	ARG	D	122	24.815	70.715	57.280	1.00	19.83	C
ATOM	10872	NH1	ARG	D	122	25.532	70.021	58.153	1.00	21.63	N
ATOM	10873	NH2	ARG	D	122	25.418	71.292	56.241	1.00	21.40	N



ATOM	10874	N	ARG	D	123	19.115	73.100	56.859	1.00	15.52	N
ATOM	10875	CA	ARG	D	123	18.640	73.391	55.505	1.00	14.49	C
ATOM	10876	C	ARG	D	123	19.349	74.609	54.909	1.00	16.08	O
ATOM	10877	O	ARG	D	123	19.838	74.544	53.809	1.00	17.82	C
ATOM	10878	CB	ARG	D	123	17.131	73.650	55.502	1.00	16.60	C
ATOM	10879	CG	ARG	D	123	16.595	74.214	54.164	1.00	12.25	C
ATOM	10880	CD	ARG	D	123	17.027	73.385	52.943	1.00	15.43	C
ATOM	10881	NE	ARG	D	123	16.758	74.157	51.713	1.00	18.85	N
ATOM	10882	CZ	ARG	D	123	17.440	74.021	50.581	1.00	18.63	C
ATOM	10883	NH1	ARG	D	123	18.429	73.141	50.513	1.00	15.55	N
ATOM	10884	NH2	ARG	D	123	17.126	74.752	49.514	1.00	19.18	N
ATOM	10885	N	ILE	D	124	19.332	75.720	55.636	1.00	18.58	N
ATOM	10886	CA	ILE	D	124	19.994	76.940	55.191	1.00	18.50	C
ATOM	10887	C	ILE	D	124	21.459	76.632	54.911	1.00	17.88	C
ATOM	10888	O	ILE	D	124	21.955	76.969	53.840	1.00	18.70	O
ATOM	10889	CB	ILE	D	124	19.876	78.062	56.247	1.00	18.13	C
ATOM	10890	CG1	ILE	D	124	18.451	78.587	56.226	1.00	19.58	C
ATOM	10891	CG2	ILE	D	124	20.885	79.197	55.941	1.00	19.97	C
ATOM	10892	CD1	ILE	D	124	18.052	79.458	57.376	1.00	19.68	C
ATOM	10893	N	ASN	D	125	22.153	75.992	55.837	1.00	19.50	N
ATOM	10894	CA	ASN	D	125	23.557	75.652	55.587	1.00	18.65	C
ATOM	10895	C	ASN	D	125	23.758	74.798	54.340	1.00	20.09	C
ATOM	10896	O	ASN	D	125	24.702	75.020	53.579	1.00	20.95	O
ATOM	10897	CB	ASN	D	125	24.207	74.951	56.780	1.00	19.19	C
ATOM	10898	CG	ASN	D	125	24.819	75.926	57.769	1.00	18.91	C
ATOM	10899	OD1	ASN	D	125	25.409	76.966	57.373	1.00	20.42	O
ATOM	10900	ND2	ASN	D	125	24.703	75.613	59.048	1.00	17.37	N
ATOM	10901	N	ASN	D	126	22.879	73.821	54.107	1.00	17.91	N
ATOM	10902	CA	ASN	D	126	23.041	72.994	52.917	1.00	17.57	C
ATOM	10903	C	ASN	D	126	22.824	73.829	51.675	1.00	16.85	C
ATOM	10904	O	ASN	D	126	23.475	73.583	50.666	1.00	20.12	O
ATOM	10905	CB	ASN	D	126	22.031	71.820	52.850	1.00	16.43	C
ATOM	10906	CG	ASN	D	126	22.237	70.803	53.915	1.00	16.51	C
ATOM	10907	OD1	ASN	D	126	23.350	70.575	54.385	1.00	17.60	O
ATOM	10908	ND2	ASN	D	126	21.126	70.123	54.311	1.00	17.69	N
ATOM	10909	N	ALA	D	127	21.898	74.780	51.730	1.00	16.80	N
ATOM	10910	CA	ALA	D	127	21.609	75.612	50.557	1.00	17.14	C
ATOM	10911	C	ALA	D	127	22.807	76.519	50.292	1.00	19.42	C
ATOM	10912	O	ALA	D	127	23.260	76.677	49.147	1.00	20.11	O
ATOM	10913	CB	ALA	D	127	20.354	76.462	50.785	1.00	14.29	C
ATOM	10914	N	LEU	D	128	23.331	77.104	51.357	1.00	21.54	N
ATOM	10915	CA	LEU	D	128	24.492	77.964	51.192	1.00	22.59	C
ATOM	10916	C	LEU	D	128	25.663	77.120	50.658	1.00	21.66	C
ATOM	10917	O	LEU	D	128	26.418	77.560	49.784	1.00	23.99	O
ATOM	10918	CB	LEU	D	128	24.852	78.647	52.530	1.00	22.90	C
ATOM	10919	CG	LEU	D	128	23.808	79.645	53.080	1.00	24.55	C
ATOM	10920	CD1	LEU	D	128	24.307	80.208	54.424	1.00	24.72	C
ATOM	10921	CD2	LEU	D	128	23.536	80.791	52.108	1.00	23.26	C
ATOM	10922	N	GLN	D	129	25.828	75.904	51.160	1.00	20.94	N
ATOM	10923	CA	GLN	D	129	26.927	75.090	50.677	1.00	19.96	C
ATOM	10924	C	GLN	D	129	26.754	74.763	49.208	1.00	21.98	C
ATOM	10925	O	GLN	D	129	27.753	74.573	48.497	1.00	22.35	O
ATOM	10926	CB	GLN	D	129	27.079	73.772	51.447	1.00	20.38	C
ATOM	10927	CG	GLN	D	129	27.646	73.878	52.864	1.00	21.51	C
ATOM	10928	CD	GLN	D	129	27.634	72.552	53.572	1.00	24.48	C
ATOM	10929	OE1	GLN	D	129	26.559	71.984	53.837	1.00	24.57	O
ATOM	10930	NE2	GLN	D	129	28.815	72.030	53.879	1.00	22.13	N
ATOM	10931	N	ARG	D	130	25.508	74.667	48.738	1.00	21.18	N
ATOM	10932	CA	ARG	D	130	25.323	74.368	47.331	1.00	21.44	C
ATOM	10933	C	ARG	D	130	25.695	75.631	46.537	1.00	20.63	C
ATOM	10934	O	ARG	D	130	26.376	75.521	45.521	1.00	23.35	O
ATOM	10935	CB	ARG	D	130	23.868	73.960	47.023	1.00	20.11	C
ATOM	10936	CG	ARG	D	130	23.654	73.533	45.545	1.00	19.79	C
ATOM	10937	CD	ARG	D	130	24.281	72.168	45.249	1.00	19.14	C
ATOM	10938	NE	ARG	D	130	23.460	71.044	45.775	1.00	19.31	N
ATOM	10939	CZ	ARG	D	130	23.934	69.911	46.288	1.00	19.08	C
ATOM	10940	NH1	ARG	D	130	25.236	69.699	46.383	1.00	18.96	N
ATOM	10941	NH2	ARG	D	130	23.091	68.952	46.711	1.00	19.42	N
ATOM	10942	N	ALA	D	131	25.249	76.815	46.978	1.00	21.42	N
ATOM	10943	CA	ALA	D	131	25.578	78.040	46.224	1.00	22.17	C
ATOM	10944	C	ALA	D	131	27.080	78.244	46.160	1.00	21.52	C
ATOM	10945	O	ALA	D	131	27.596	78.793	45.177	1.00	22.65	O
ATOM	10946	CB	ALA	D	131	24.897	79.280	46.817	1.00	21.56	C
ATOM	10947	N	ASP	D	132	27.776	77.757	47.184	1.00	23.07	N
ATOM	10948	CA	ASP	D	132	29.237	77.874	47.288	1.00	23.83	C
ATOM	10949	C	ASP	D	132	29.894	76.889	46.338	1.00	24.33	C
ATOM	10950	O	ASP	D	132	30.850	77.229	45.647	1.00	24.32	O
ATOM	10951	CB	ASP	D	132	29.671	77.619	48.734	1.00	25.89	C
ATOM	10952	CG	ASP	D	132	31.187	77.610	48.914	1.00	28.37	C
ATOM	10953	OD1	ASP	D	132	31.857	78.645	48.669	1.00	30.76	O



ATOM	10954	OD2	ASP	D	132	31.719	76.567	49.328	1.00	29.10	O
ATOM	10955	N	GLN	D	133	29.364	75.668	46.268	1.00	24.08	N
ATOM	10956	CA	GLN	D	133	29.908	74.651	45.374	1.00	23.43	C
ATOM	10957	C	GLN	D	133	29.732	75.058	43.898	1.00	23.04	C
ATOM	10958	O	GLN	D	133	30.594	74.768	43.065	1.00	25.01	O
ATOM	10959	CB	GLN	D	133	29.207	73.296	45.608	1.00	21.60	C
ATOM	10960	CG	GLN	D	133	29.654	72.531	46.838	1.00	21.16	C
ATOM	10961	CD	GLN	D	133	28.527	71.674	47.443	1.00	24.46	C
ATOM	10962	OE1	GLN	D	133	28.655	71.168	48.569	1.00	27.23	O
ATOM	10963	NE2	GLN	D	133	27.432	71.523	46.712	1.00	17.27	N
ATOM	10964	N	ILE	D	134	28.613	75.713	43.595	1.00	24.97	N
ATOM	10965	CA	ILE	D	134	28.294	76.169	42.252	1.00	24.56	C
ATOM	10966	C	ILE	D	134	29.196	77.343	41.884	1.00	26.38	C
ATOM	10967	O	ILE	D	134	29.782	77.353	40.795	1.00	25.84	O
ATOM	10968	CB	ILE	D	134	26.815	76.628	42.160	1.00	25.75	C
ATOM	10969	CG1	ILE	D	134	25.886	75.414	42.295	1.00	21.93	C
ATOM	10970	CG2	ILE	D	134	26.560	77.408	40.847	1.00	24.49	C
ATOM	10971	CD1	ILE	D	134	24.386	75.781	42.261	1.00	22.06	C
ATOM	10972	N	ALA	D	135	29.300	78.321	42.786	1.00	25.44	N
ATOM	10973	CA	ALA	D	135	30.134	79.500	42.497	1.00	28.02	C
ATOM	10974	C	ALA	D	135	31.548	79.061	42.184	1.00	28.43	C
ATOM	10975	O	ALA	D	135	32.216	79.695	41.359	1.00	31.32	O
ATOM	10976	CB	ALA	D	135	30.149	80.455	43.672	1.00	27.48	C
ATOM	10977	N	LYS	D	136	32.002	77.987	42.822	1.00	28.46	N
ATOM	10978	CA	LYS	D	136	33.352	77.518	42.583	1.00	30.04	C
ATOM	10979	C	LYS	D	136	33.505	77.033	41.174	1.00	31.86	C
ATOM	10980	O	LYS	D	136	34.346	77.528	40.438	1.00	31.16	O
ATOM	10981	CB	LYS	D	136	33.723	76.409	43.528	1.00	28.52	C
ATOM	10982	CG	LYS	D	136	35.185	76.058	43.510	1.00	29.82	C
ATOM	10983	CD	LYS	D	136	35.526	75.039	44.606	1.00	29.45	C
ATOM	10984	CE	LYS	D	136	37.028	74.749	44.684	1.00	28.46	C
ATOM	10985	NZ	LYS	D	136	37.331	73.869	45.864	1.00	30.49	N
ATOM	10986	N	ILE	D	137	32.679	76.080	40.766	1.00	31.57	N
ATOM	10987	CA	ILE	D	137	32.843	75.583	39.410	1.00	32.20	C
ATOM	10988	C	ILE	D	137	32.547	76.636	38.342	1.00	30.93	C
ATOM	10989	O	ILE	D	137	32.974	76.493	37.207	1.00	30.92	O
ATOM	10990	CB	ILE	D	137	31.986	74.336	39.179	1.00	32.91	C
ATOM	10991	CG1	ILE	D	137	32.134	73.409	40.374	1.00	32.90	C
ATOM	10992	CG2	ILE	D	137	32.479	73.590	37.952	1.00	35.20	C
ATOM	10993	CD1	ILE	D	137	31.800	71.967	40.067	1.00	34.82	C
ATOM	10994	N	GLU	D	138	31.855	77.709	38.702	1.00	30.57	N
ATOM	10995	CA	GLU	D	138	31.551	78.734	37.720	1.00	31.57	C
ATOM	10996	C	GLU	D	138	32.588	79.867	37.743	1.00	32.84	C
ATOM	10997	O	GLU	D	138	32.516	80.819	36.942	1.00	33.05	O
ATOM	10998	CB	GLU	D	138	30.168	79.326	37.972	1.00	32.48	C
ATOM	10999	CG	GLU	D	138	29.011	78.341	37.836	1.00	32.97	C
ATOM	11000	CD	GLU	D	138	27.650	79.034	37.882	1.00	33.41	C
ATOM	11001	OE1	GLU	D	138	27.531	80.095	38.540	1.00	35.12	O
ATOM	11002	OE2	GLU	D	138	26.685	78.514	37.272	1.00	33.10	O
ATOM	11003	N	GLY	D	139	33.544	79.766	38.656	1.00	33.47	N
ATOM	11004	CA	GLY	D	139	34.545	80.808	38.771	1.00	35.35	C
ATOM	11005	C	GLY	D	139	33.931	82.121	39.251	1.00	36.23	C
ATOM	11006	O	GLY	D	139	34.452	83.210	38.969	1.00	35.89	O
ATOM	11007	N	ASP	D	140	32.824	82.027	39.985	1.00	35.14	N
ATOM	11008	CA	ASP	D	140	32.140	83.206	40.510	1.00	35.54	C
ATOM	11009	C	ASP	D	140	32.771	83.619	41.852	1.00	35.76	C
ATOM	11010	O	ASP	D	140	32.772	82.843	42.817	1.00	34.33	O
ATOM	11011	CB	ASP	D	140	30.649	82.887	40.691	1.00	36.02	C
ATOM	11012	CG	ASP	D	140	29.853	84.062	41.231	1.00	37.79	C
ATOM	11013	OD1	ASP	D	140	30.454	85.129	41.485	1.00	38.34	O
ATOM	11014	OD2	ASP	D	140	28.619	83.922	41.407	1.00	37.93	O
ATOM	11015	N	THR	D	141	33.324	84.833	41.905	1.00	35.72	N
ATOM	11016	CA	THR	D	141	33.949	85.350	43.125	1.00	36.61	C
ATOM	11017	C	THR	D	141	33.167	86.565	43.625	1.00	37.10	C
ATOM	11018	O	THR	D	141	33.609	87.329	44.489	1.00	38.03	O
ATOM	11019	CB	THR	D	141	35.424	85.733	42.862	1.00	37.86	C
ATOM	11020	OG1	THR	D	141	35.503	86.525	41.663	1.00	39.06	O
ATOM	11021	CG2	THR	D	141	36.288	84.471	42.713	1.00	36.99	C
ATOM	11022	N	SER	D	142	31.978	86.719	43.068	1.00	37.68	N
ATOM	11023	CA	SER	D	142	31.063	87.789	43.409	1.00	37.41	C
ATOM	11024	C	SER	D	142	30.795	87.857	44.927	1.00	36.96	C
ATOM	11025	O	SER	D	142	30.484	88.935	45.462	1.00	36.65	O
ATOM	11026	CB	SER	D	142	29.761	87.568	42.620	1.00	37.69	C
ATOM	11027	OG	SER	D	142	28.608	87.880	43.382	1.00	41.87	O
ATOM	11028	N	VAL	D	143	30.939	86.707	45.596	1.00	35.03	N
ATOM	11029	CA	VAL	D	143	30.727	86.561	47.039	1.00	33.46	C
ATOM	11030	C	VAL	D	143	31.966	85.977	47.721	1.00	33.99	C
ATOM	11031	O	VAL	D	143	32.482	84.934	47.340	1.00	33.15	O
ATOM	11032	CB	VAL	D	143	29.526	85.618	47.329	1.00	33.63	C
ATOM	11033	CG1	VAL	D	143	29.500	85.214	48.808	1.00	32.74	C



ATOM	11034	CG2	VAL	D	143	28.229	86.301	46.940	1.00	33.02	C
ATOM	11035	N	GLU	D	144	32.422	86.644	48.769	1.00	34.48	N
ATOM	11036	CA	GLU	D	144	33.602	86.203	49.493	1.00	34.11	C
ATOM	11037	C	GLU	D	144	33.302	85.062	50.446	1.00	33.00	C
ATOM	11038	O	GLU	D	144	34.092	84.128	50.582	1.00	32.74	O
ATOM	11039	CB	GLU	D	144	34.220	87.387	50.254	1.00	37.09	C
ATOM	11040	CG	GLU	D	144	33.295	88.057	51.289	1.00	39.93	C
ATOM	11041	CD	GLU	D	144	31.845	88.273	50.807	1.00	42.06	C
ATOM	11042	OE1	GLU	D	144	31.640	88.944	49.764	1.00	41.02	O
ATOM	11043	OE2	GLU	D	144	30.909	87.772	51.491	1.00	41.90	O
ATOM	11044	N	ASN	D	145	32.149	85.112	51.098	1.00	31.46	N
ATOM	11045	CA	ASN	D	145	31.844	84.045	52.035	1.00	29.93	C
ATOM	11046	C	ASN	D	145	30.417	83.601	51.850	1.00	28.28	C
ATOM	11047	O	ASN	D	145	29.489	84.338	52.202	1.00	29.01	O
ATOM	11048	CB	ASN	D	145	32.060	84.554	53.457	1.00	30.42	C
ATOM	11049	CG	ASN	D	145	31.659	83.551	54.493	1.00	28.75	C
ATOM	11050	OD1	ASN	D	145	30.891	83.873	55.394	1.00	32.30	O
ATOM	11051	ND2	ASN	D	145	32.181	82.332	54.388	1.00	27.99	N
ATOM	11052	N	TRP	D	146	30.230	82.417	51.273	1.00	27.55	N
ATOM	11053	CA	TRP	D	146	28.876	81.930	51.045	1.00	26.97	C
ATOM	11054	C	TRP	D	146	28.270	81.446	52.350	1.00	25.99	C
ATOM	11055	O	TRP	D	146	27.060	81.507	52.534	1.00	27.38	O
ATOM	11056	CB	TRP	D	146	28.865	80.804	50.012	1.00	25.68	C
ATOM	11057	CG	TRP	D	146	28.746	81.332	48.620	1.00	26.07	C
ATOM	11058	CD1	TRP	D	146	29.731	81.376	47.678	1.00	25.15	C
ATOM	11059	CD2	TRP	D	146	27.590	81.951	48.027	1.00	26.94	C
ATOM	11060	NE1	TRP	D	146	29.266	81.990	46.543	1.00	25.40	N
ATOM	11061	CE2	TRP	D	146	27.959	82.350	46.723	1.00	25.81	C
ATOM	11062	CE3	TRP	D	146	26.283	82.203	48.470	1.00	25.11	C
ATOM	11063	CZ2	TRP	D	146	27.073	82.985	45.860	1.00	27.06	C
ATOM	11064	CZ3	TRP	D	146	25.402	82.832	47.624	1.00	26.28	C
ATOM	11065	CH2	TRP	D	146	25.799	83.224	46.322	1.00	27.67	C
ATOM	11066	N	LEU	D	147	29.128	80.973	53.239	1.00	26.30	N
ATOM	11067	CA	LEU	D	147	28.682	80.501	54.543	1.00	26.95	C
ATOM	11068	C	LEU	D	147	28.526	81.594	55.585	1.00	25.76	C
ATOM	11069	O	LEU	D	147	29.218	81.611	56.606	1.00	26.67	O
ATOM	11070	CB	LEU	D	147	29.619	79.438	55.053	1.00	26.63	C
ATOM	11071	CG	LEU	D	147	29.361	78.228	54.178	1.00	30.40	C
ATOM	11072	CD1	LEU	D	147	30.432	77.191	54.393	1.00	29.28	C
ATOM	11073	CD2	LEU	D	147	27.978	77.674	54.513	1.00	30.22	C
ATOM	11074	N	ALA	D	148	27.602	82.501	55.308	1.00	26.18	N
ATOM	11075	CA	ALA	D	148	27.267	83.582	56.229	1.00	25.81	C
ATOM	11076	C	ALA	D	148	26.849	82.916	57.557	1.00	25.96	C
ATOM	11077	O	ALA	D	148	26.287	81.812	57.562	1.00	27.47	O
ATOM	11078	CB	ALA	D	148	26.111	84.386	55.671	1.00	26.79	C
ATOM	11079	N	PRO	D	149	27.135	83.557	58.701	1.00	23.98	N
ATOM	11080	CA	PRO	D	149	26.751	82.952	59.981	1.00	20.87	C
ATOM	11081	C	PRO	D	149	25.262	83.032	60.184	1.00	21.43	C
ATOM	11082	O	PRO	D	149	24.629	84.029	59.821	1.00	17.96	O
ATOM	11083	CB	PRO	D	149	27.519	83.793	61.006	1.00	23.42	C
ATOM	11084	CG	PRO	D	149	27.539	85.175	60.351	1.00	21.65	C
ATOM	11085	CD	PRO	D	149	27.774	84.878	58.892	1.00	22.73	C
ATOM	11086	N	ILE	D	150	24.704	81.965	60.781	1.00	19.05	N
ATOM	11087	CA	ILE	D	150	23.279	81.898	61.051	1.00	19.39	C
ATOM	11088	C	ILE	D	150	22.985	82.167	62.532	1.00	18.43	C
ATOM	11089	O	ILE	D	150	23.596	81.560	63.396	1.00	20.77	O
ATOM	11090	CB	ILE	D	150	22.704	80.486	60.740	1.00	18.33	C
ATOM	11091	CG1	ILE	D	150	22.914	80.125	59.266	1.00	19.15	C
ATOM	11092	CG2	ILE	D	150	21.196	80.492	61.095	1.00	19.16	C
ATOM	11093	CD1	ILE	D	150	22.879	78.589	58.987	1.00	19.14	C
ATOM	11094	N	VAL	D	151	22.051	83.066	62.803	1.00	19.68	N
ATOM	11095	CA	VAL	D	151	21.641	83.375	64.152	1.00	20.62	C
ATOM	11096	C	VAL	D	151	20.230	82.857	64.235	1.00	21.30	C
ATOM	11097	O	VAL	D	151	19.357	83.321	63.509	1.00	20.95	O
ATOM	11098	CB	VAL	D	151	21.711	84.877	64.403	1.00	21.09	C
ATOM	11099	CG1	VAL	D	151	20.944	85.260	65.656	1.00	20.39	C
ATOM	11100	CG2	VAL	D	151	23.169	85.256	64.500	1.00	21.02	C
ATOM	11101	N	ALA	D	152	20.019	81.894	65.136	1.00	21.22	N
ATOM	11102	CA	ALA	D	152	18.725	81.231	65.245	1.00	20.95	C
ATOM	11103	C	ALA	D	152	17.979	81.410	66.544	1.00	18.82	C
ATOM	11104	O	ALA	D	152	18.564	81.606	67.580	1.00	19.98	O
ATOM	11105	CB	ALA	D	152	18.913	79.750	64.977	1.00	21.46	C
ATOM	11106	N	ASP	D	153	16.665	81.268	66.437	1.00	18.78	N
ATOM	11107	CA	ASP	D	153	15.712	81.429	67.521	1.00	18.65	C
ATOM	11108	C	ASP	D	153	15.594	80.181	68.406	1.00	18.93	C
ATOM	11109	O	ASP	D	153	15.185	79.108	67.938	1.00	18.71	O
ATOM	11110	CB	ASP	D	153	14.383	81.729	66.860	1.00	18.43	C
ATOM	11111	CG	ASP	D	153	13.403	82.405	67.758	1.00	19.88	C
ATOM	11112	OD1	ASP	D	153	13.466	82.252	69.007	1.00	20.88	O
ATOM	11113	OD2	ASP	D	153	12.531	83.088	67.180	1.00	20.97	O



ATOM	11114	N	GLY	D	154	15.949	80.311	69.682	1.00	17.03	N
ATOM	11115	CA	GLY	D	154	15.848	79.181	70.591	1.00	17.38	C
ATOM	11116	C	GLY	D	154	14.637	79.402	71.471	1.00	16.79	C
ATOM	11117	O	GLY	D	154	14.431	78.689	72.451	1.00	17.63	O
ATOM	11118	N	GLU	D	155	13.849	80.424	71.118	1.00	18.66	N
ATOM	11119	CA	GLU	D	155	12.632	80.793	71.843	1.00	18.85	C
ATOM	11120	C	GLU	D	155	12.816	80.801	73.361	1.00	20.04	C
ATOM	11121	O	GLU	D	155	13.732	81.480	73.867	1.00	20.09	O
ATOM	11122	CB	GLU	D	155	11.480	79.850	71.395	1.00	20.63	C
ATOM	11123	CG	GLU	D	155	11.288	79.921	69.876	1.00	22.08	C
ATOM	11124	CD	GLU	D	155	9.902	79.544	69.386	1.00	24.83	C
ATOM	11125	OE1	GLU	D	155	9.135	78.932	70.167	1.00	27.41	O
ATOM	11126	OE2	GLU	D	155	9.589	79.846	68.201	1.00	27.93	O
ATOM	11127	N	ALA	D	156	11.955	80.074	74.075	1.00	18.40	N
ATOM	11128	CA	ALA	D	156	12.018	79.973	75.539	1.00	19.73	C
ATOM	11129	C	ALA	D	156	12.553	78.621	76.002	1.00	18.81	C
ATOM	11130	O	ALA	D	156	12.359	78.214	77.162	1.00	19.08	O
ATOM	11131	CB	ALA	D	156	10.656	80.211	76.128	1.00	19.67	C
ATOM	11132	N	GLY	D	157	13.194	77.921	75.071	1.00	16.43	N
ATOM	11133	CA	GLY	D	157	13.813	76.674	75.402	1.00	15.89	C
ATOM	11134	C	GLY	D	157	12.948	75.437	75.281	1.00	18.12	C
ATOM	11135	O	GLY	D	157	13.482	74.342	75.408	1.00	19.23	O
ATOM	11136	N	PHE	D	158	11.647	75.601	75.058	1.00	16.32	N
ATOM	11137	CA	PHE	D	158	10.724	74.446	74.931	1.00	17.07	C
ATOM	11138	C	PHE	D	158	10.704	73.565	76.184	1.00	19.02	C
ATOM	11139	O	PHE	D	158	10.566	72.332	76.091	1.00	18.85	O
ATOM	11140	CB	PHE	D	158	11.123	73.553	73.746	1.00	18.49	C
ATOM	11141	CG	PHE	D	158	10.860	74.167	72.424	1.00	21.14	C
ATOM	11142	CD1	PHE	D	158	9.588	74.105	71.854	1.00	18.30	C
ATOM	11143	CD2	PHE	D	158	11.854	74.902	71.783	1.00	21.32	C
ATOM	11144	CE1	PHE	D	158	9.304	74.752	70.693	1.00	18.08	C
ATOM	11145	CE2	PHE	D	158	11.576	75.578	70.591	1.00	23.20	C
ATOM	11146	CZ	PHE	D	158	10.286	75.501	70.040	1.00	21.71	C
ATOM	11147	N	GLY	D	159	10.849	74.170	77.350	1.00	18.46	N
ATOM	11148	CA	GLY	D	159	10.834	73.375	78.555	1.00	17.44	C
ATOM	11149	C	GLY	D	159	11.758	73.873	79.648	1.00	19.05	C
ATOM	11150	O	GLY	D	159	11.780	75.063	79.954	1.00	20.20	O
ATOM	11151	N	GLY	D	160	12.529	72.947	80.224	1.00	17.69	N
ATOM	11152	CA	GLY	D	160	13.429	73.290	81.314	1.00	19.24	C
ATOM	11153	C	GLY	D	160	14.868	73.429	80.846	1.00	18.06	C
ATOM	11154	O	GLY	D	160	15.114	73.456	79.641	1.00	18.28	O
ATOM	11155	N	ALA	D	161	15.822	73.493	81.782	1.00	17.04	N
ATOM	11156	CA	ALA	D	161	17.223	73.629	81.378	1.00	17.04	C
ATOM	11157	C	ALA	D	161	17.739	72.507	80.473	1.00	16.82	C
ATOM	11158	O	ALA	D	161	18.616	72.737	79.641	1.00	15.98	O
ATOM	11159	CB	ALA	D	161	18.118	73.767	82.617	1.00	18.16	C
ATOM	11160	N	LEU	D	162	17.204	71.290	80.626	1.00	16.02	N
ATOM	11161	CA	LEU	D	162	17.646	70.176	79.786	1.00	15.85	C
ATOM	11162	C	LEU	D	162	17.059	70.301	78.366	1.00	15.03	C
ATOM	11163	O	LEU	D	162	17.677	69.846	77.405	1.00	15.98	O
ATOM	11164	CB	LEU	D	162	17.245	68.826	80.430	1.00	14.59	C
ATOM	11165	CG	LEU	D	162	17.825	68.650	81.839	1.00	17.83	C
ATOM	11166	CD1	LEU	D	162	17.273	67.354	82.480	1.00	18.02	C
ATOM	11167	CD2	LEU	D	162	19.360	68.550	81.740	1.00	16.42	C
ATOM	11168	N	ASN	D	163	15.859	70.861	78.227	1.00	13.99	N
ATOM	11169	CA	ASN	D	163	15.285	71.071	76.893	1.00	11.99	C
ATOM	11170	C	ASN	D	163	16.147	72.157	76.200	1.00	13.83	C
ATOM	11171	O	ASN	D	163	16.429	72.051	74.997	1.00	13.61	O
ATOM	11172	CB	ASN	D	163	13.814	71.525	76.963	1.00	14.95	C
ATOM	11173	CG	ASN	D	163	12.881	70.425	77.533	1.00	14.54	C
ATOM	11174	OD1	ASN	D	163	12.327	69.585	76.780	1.00	19.52	O
ATOM	11175	ND2	ASN	D	163	12.743	70.401	78.841	1.00	13.63	N
ATOM	11176	N	VAL	D	164	16.564	73.180	76.950	1.00	11.92	N
ATOM	11177	CA	VAL	D	164	17.411	74.237	76.379	1.00	13.16	C
ATOM	11178	C	VAL	D	164	18.715	73.617	75.866	1.00	12.58	C
ATOM	11179	O	VAL	D	164	19.172	73.896	74.751	1.00	14.01	O
ATOM	11180	CB	VAL	D	164	17.780	75.322	77.478	1.00	12.03	C
ATOM	11181	CG1	VAL	D	164	18.831	76.306	76.920	1.00	14.63	C
ATOM	11182	CG2	VAL	D	164	16.562	76.089	77.911	1.00	15.19	C
ATOM	11183	N	TYR	D	165	19.306	72.775	76.709	1.00	13.89	N
ATOM	11184	CA	TYR	D	165	20.560	72.109	76.415	1.00	13.23	C
ATOM	11185	C	TYR	D	165	20.431	71.343	75.100	1.00	14.96	C
ATOM	11186	O	TYR	D	165	21.261	71.503	74.195	1.00	11.81	O
ATOM	11187	CB	TYR	D	165	20.955	71.188	77.593	1.00	13.02	C
ATOM	11188	CG	TYR	D	165	22.272	70.455	77.396	1.00	14.17	C
ATOM	11189	CD1	TYR	D	165	22.363	69.364	76.545	1.00	12.88	C
ATOM	11190	CD2	TYR	D	165	23.455	70.939	77.972	1.00	13.98	C
ATOM	11191	CE1	TYR	D	165	23.614	68.755	76.246	1.00	14.97	C
ATOM	11192	CE2	TYR	D	165	24.723	70.340	77.682	1.00	14.77	C
ATOM	11193	CZ	TYR	D	165	24.798	69.250	76.824	1.00	16.02	C



ATOM	11194	OH	TYR	D	165	26.014	68.615	76.554	1.00	16.58	O
ATOM	11195	N	GLU	D	166	19.389	70.517	74.965	1.00	12.91	N
ATOM	11196	CA	GLU	D	166	19.241	69.757	73.734	1.00	12.72	C
ATOM	11197	C	GLU	D	166	19.007	70.615	72.512	1.00	13.19	C
ATOM	11198	O	GLU	D	166	19.516	70.305	71.440	1.00	14.20	O
ATOM	11199	CB	GLU	D	166	18.105	68.716	73.871	1.00	14.79	C
ATOM	11200	CG	GLU	D	166	18.496	67.528	74.806	1.00	15.40	C
ATOM	11201	CD	GLU	D	166	19.774	66.827	74.333	1.00	17.66	C
ATOM	11202	OE1	GLU	D	166	19.810	66.398	73.157	1.00	17.87	O
ATOM	11203	OE2	GLU	D	166	20.727	66.685	75.137	1.00	15.81	O
ATOM	11204	N	LEU	D	167	18.239	71.700	72.656	1.00	15.38	N
ATOM	11205	CA	LEU	D	167	17.989	72.564	71.523	1.00	13.84	C
ATOM	11206	C	LEU	D	167	19.298	73.197	71.081	1.00	13.92	C
ATOM	11207	O	LEU	D	167	19.619	73.197	69.904	1.00	13.21	O
ATOM	11208	CB	LEU	D	167	16.958	73.627	71.860	1.00	15.17	C
ATOM	11209	CG	LEU	D	167	16.687	74.708	70.796	1.00	13.26	C
ATOM	11210	CD1	LEU	D	167	16.528	74.087	69.380	1.00	12.43	C
ATOM	11211	CD2	LEU	D	167	15.434	75.509	71.171	1.00	13.61	C
ATOM	11212	N	GLN	D	168	20.085	73.700	72.035	1.00	15.16	N
ATOM	11213	CA	GLN	D	168	21.372	74.307	71.682	1.00	14.65	C
ATOM	11214	C	GLN	D	168	22.269	73.295	70.976	1.00	13.91	C
ATOM	11215	O	GLN	D	168	22.903	73.617	69.957	1.00	15.02	O
ATOM	11216	CB	GLN	D	168	22.076	74.840	72.959	1.00	15.16	C
ATOM	11217	CG	GLN	D	168	23.496	75.383	72.662	1.00	17.37	C
ATOM	11218	CD	GLN	D	168	23.480	76.767	72.035	1.00	19.70	C
ATOM	11219	OE1	GLN	D	168	22.710	77.044	71.104	1.00	17.53	O
ATOM	11220	NE2	GLN	D	168	24.324	77.667	72.564	1.00	19.21	N
ATOM	11221	N	LYS	D	169	22.325	72.078	71.519	1.00	13.37	N
ATOM	11222	CA	LYS	D	169	23.138	70.996	70.953	1.00	12.97	C
ATOM	11223	C	LYS	D	169	22.716	70.683	69.514	1.00	15.44	C
ATOM	11224	O	LYS	D	169	23.558	70.537	68.613	1.00	12.79	O
ATOM	11225	CB	LYS	D	169	23.032	69.738	71.842	1.00	13.01	C
ATOM	11226	CG	LYS	D	169	23.741	68.536	71.304	1.00	11.72	C
ATOM	11227	CD	LYS	D	169	23.591	67.332	72.240	1.00	15.48	C
ATOM	11228	CE	LYS	D	169	24.123	66.052	71.557	1.00	16.12	C
ATOM	11229	NZ	LYS	D	169	24.070	64.872	72.508	1.00	18.65	N
ATOM	11230	N	ALA	D	170	21.403	70.599	69.282	1.00	12.30	N
ATOM	11231	CA	ALA	D	170	20.916	70.323	67.935	1.00	13.09	C
ATOM	11232	C	ALA	D	170	21.199	71.518	66.992	1.00	9.52	C
ATOM	11233	O	ALA	D	170	21.469	71.320	65.807	1.00	9.19	O
ATOM	11234	CB	ALA	D	170	19.376	70.013	67.977	1.00	10.15	C
ATOM	11235	N	LEU	D	171	21.094	72.744	67.502	1.00	11.51	N
ATOM	11236	CA	LEU	D	171	21.376	73.910	66.662	1.00	13.01	C
ATOM	11237	C	LEU	D	171	22.836	73.873	66.185	1.00	12.04	C
ATOM	11238	O	LEU	D	171	23.163	74.208	65.024	1.00	12.47	O
ATOM	11239	CB	LEU	D	171	21.115	75.225	67.430	1.00	12.97	C
ATOM	11240	CG	LEU	D	171	19.636	75.595	67.691	1.00	13.88	C
ATOM	11241	CD1	LEU	D	171	19.583	76.811	68.598	1.00	15.94	C
ATOM	11242	CD2	LEU	D	171	18.930	75.871	66.366	1.00	12.56	C
ATOM	11243	N	ILE	D	172	23.710	73.478	67.098	1.00	15.61	N
ATOM	11244	CA	ILE	D	172	25.140	73.375	66.817	1.00	15.56	C
ATOM	11245	C	ILE	D	172	25.456	72.242	65.867	1.00	16.47	C
ATOM	11246	O	ILE	D	172	26.319	72.365	64.964	1.00	16.47	O
ATOM	11247	CB	ILE	D	172	25.948	73.198	68.153	1.00	17.24	C
ATOM	11248	CG1	ILE	D	172	26.040	74.546	68.856	1.00	16.01	C
ATOM	11249	CG2	ILE	D	172	27.350	72.672	67.867	1.00	13.28	C
ATOM	11250	CD1	ILE	D	172	26.337	74.432	70.401	1.00	18.73	C
ATOM	11251	N	ALA	D	173	24.769	71.111	66.033	1.00	13.94	N
ATOM	11252	CA	ALA	D	173	25.054	70.024	65.128	1.00	15.12	C
ATOM	11253	C	ALA	D	173	24.640	70.440	63.713	1.00	15.04	C
ATOM	11254	O	ALA	D	173	25.245	70.000	62.744	1.00	17.40	O
ATOM	11255	CB	ALA	D	173	24.300	68.735	65.576	1.00	14.22	C
ATOM	11256	N	ALA	D	174	23.639	71.302	63.611	1.00	15.30	N
ATOM	11257	CA	ALA	D	174	23.116	71.794	62.317	1.00	16.21	C
ATOM	11258	C	ALA	D	174	23.995	72.876	61.691	1.00	17.70	C
ATOM	11259	O	ALA	D	174	23.845	73.206	60.503	1.00	19.97	O
ATOM	11260	CB	ALA	D	174	21.684	72.329	62.495	1.00	13.67	C
ATOM	11261	N	GLY	D	175	24.895	73.435	62.496	1.00	18.89	N
ATOM	11262	CA	GLY	D	175	25.812	74.469	62.018	1.00	18.85	C
ATOM	11263	C	GLY	D	175	25.465	75.908	62.344	1.00	20.49	C
ATOM	11264	O	GLY	D	175	25.856	76.817	61.608	1.00	22.41	O
ATOM	11265	N	VAL	D	176	24.765	76.148	63.452	1.00	18.97	N
ATOM	11266	CA	VAL	D	176	24.379	77.509	63.823	1.00	17.98	C
ATOM	11267	C	VAL	D	176	25.610	78.281	64.346	1.00	18.89	C
ATOM	11268	O	VAL	D	176	26.500	77.674	64.905	1.00	20.75	O
ATOM	11269	CB	VAL	D	176	23.331	77.467	64.947	1.00	18.04	C
ATOM	11270	CG1	VAL	D	176	24.008	77.406	66.308	1.00	17.78	C
ATOM	11271	CG2	VAL	D	176	22.394	78.643	64.854	1.00	19.01	C
ATOM	11272	N	ALA	D	177	25.620	79.604	64.169	1.00	20.50	N
ATOM	11273	CA	ALA	D	177	26.712	80.478	64.680	1.00	19.62	C



ATOM	11274	C	ALA	D	177	26.297	81.096	66.032	1.00	18.20	C
ATOM	11275	O	ALA	D	177	27.106	81.293	66.924	1.00	19.35	O
ATOM	11276	CB	ALA	D	177	26.997	81.601	63.674	1.00	18.58	C
ATOM	11277	N	GLY	D	178	25.027	81.436	66.175	1.00	19.20	N
ATOM	11278	CA	GLY	D	178	24.562	82.002	67.421	1.00	19.48	C
ATOM	11279	C	GLY	D	178	23.116	81.663	67.686	1.00	20.36	C
ATOM	11280	O	GLY	D	178	22.363	81.328	66.746	1.00	17.93	O
ATOM	11281	N	SER	D	179	22.725	81.720	68.950	1.00	19.23	N
ATOM	11282	CA	SER	D	179	21.339	81.426	69.315	1.00	19.25	C
ATOM	11283	C	SER	D	179	20.816	82.391	70.362	1.00	17.40	C
ATOM	11284	O	SER	D	179	21.562	82.830	71.213	1.00	19.08	O
ATOM	11285	CB	SER	D	179	21.208	79.988	69.817	1.00	18.37	C
ATOM	11286	OG	SER	D	179	22.178	79.667	70.794	1.00	17.57	O
ATOM	11287	N	HIS	D	180	19.535	82.727	70.298	1.00	18.75	N
ATOM	11288	CA	HIS	D	180	18.953	83.635	71.281	1.00	20.09	C
ATOM	11289	C	HIS	D	180	17.904	82.941	72.153	1.00	20.83	C
ATOM	11290	O	HIS	D	180	17.173	82.050	71.697	1.00	19.65	O
ATOM	11291	CB	HIS	D	180	18.401	84.912	70.627	1.00	18.16	C
ATOM	11292	CG	HIS	D	180	17.183	84.735	69.757	1.00	18.53	C
ATOM	11293	ND1	HIS	D	180	17.231	84.900	68.387	1.00	20.52	N
ATOM	11294	CD2	HIS	D	180	15.869	84.629	70.069	1.00	17.63	C
ATOM	11295	CE1	HIS	D	180	16.007	84.911	67.898	1.00	17.39	C
ATOM	11296	NE2	HIS	D	180	15.161	84.748	68.896	1.00	19.83	N
ATOM	11297	N	TRP	D	181	17.854	83.352	73.413	1.00	17.93	N
ATOM	11298	CA	TRP	D	181	16.976	82.747	74.415	1.00	17.84	C
ATOM	11299	C	TRP	D	181	16.244	83.823	75.194	1.00	19.03	C
ATOM	11300	O	TRP	D	181	16.881	84.768	75.647	1.00	20.04	O
ATOM	11301	CB	TRP	D	181	17.838	81.921	75.359	1.00	15.40	C
ATOM	11302	CG	TRP	D	181	18.774	81.054	74.621	1.00	18.94	C
ATOM	11303	CD1	TRP	D	181	19.998	81.404	74.100	1.00	17.50	C
ATOM	11304	CD2	TRP	D	181	18.522	79.706	74.185	1.00	17.19	C
ATOM	11305	NE1	TRP	D	181	20.513	80.359	73.364	1.00	17.06	N
ATOM	11306	CE2	TRP	D	181	19.630	79.303	73.403	1.00	18.26	C
ATOM	11307	CE3	TRP	D	181	17.465	78.799	74.382	1.00	18.70	C
ATOM	11308	CZ2	TRP	D	181	19.716	78.019	72.808	1.00	16.84	C
ATOM	11309	CZ3	TRP	D	181	17.557	77.494	73.781	1.00	16.96	C
ATOM	11310	CH2	TRP	D	181	18.665	77.134	73.014	1.00	18.27	C
ATOM	11311	N	GLU	D	182	14.926	83.687	75.370	1.00	19.49	N
ATOM	11312	CA	GLU	D	182	14.131	84.688	76.083	1.00	20.01	C
ATOM	11313	C	GLU	D	182	13.609	84.267	77.454	1.00	19.67	C
ATOM	11314	O	GLU	D	182	13.368	83.087	77.695	1.00	18.39	O
ATOM	11315	CB	GLU	D	182	12.930	85.096	75.246	1.00	21.39	C
ATOM	11316	CG	GLU	D	182	11.905	83.965	75.075	1.00	22.21	C
ATOM	11317	CD	GLU	D	182	11.281	83.927	73.675	1.00	25.21	C
ATOM	11318	OE1	GLU	D	182	11.962	84.297	72.683	1.00	26.94	O
ATOM	11319	OE2	GLU	D	182	10.113	83.514	73.571	1.00	26.22	O
ATOM	11320	N	ASP	D	183	13.376	85.262	78.315	1.00	18.49	N
ATOM	11321	CA	ASP	D	183	12.899	85.040	79.663	1.00	19.78	C
ATOM	11322	C	ASP	D	183	11.386	84.895	79.791	1.00	20.63	C
ATOM	11323	O	ASP	D	183	10.778	85.510	80.658	1.00	21.59	O
ATOM	11324	CB	ASP	D	183	13.397	86.132	80.622	1.00	21.09	C
ATOM	11325	CG	ASP	D	183	13.129	87.543	80.107	1.00	24.30	C
ATOM	11326	OD1	ASP	D	183	12.280	87.694	79.179	1.00	24.08	O
ATOM	11327	OD2	ASP	D	183	13.771	88.490	80.642	1.00	20.92	O
ATOM	11328	N	GLN	D	184	10.780	84.090	78.905	1.00	20.06	N
ATOM	11329	CA	GLN	D	184	9.353	83.823	79.006	1.00	21.34	C
ATOM	11330	C	GLN	D	184	9.127	82.373	79.422	1.00	21.75	C
ATOM	11331	O	GLN	D	184	9.986	81.502	79.234	1.00	23.13	O
ATOM	11332	CB	GLN	D	184	8.652	83.996	77.671	1.00	21.51	C
ATOM	11333	CG	GLN	D	184	8.648	85.375	77.098	1.00	21.96	C
ATOM	11334	CD	GLN	D	184	7.850	85.384	75.828	1.00	18.59	C
ATOM	11335	OE1	GLN	D	184	6.736	84.926	75.817	1.00	24.18	O
ATOM	11336	NE2	GLN	D	184	8.415	85.903	74.762	1.00	22.26	N
ATOM	11337	N	LEU	D	185	7.940	82.123	79.963	1.00	22.12	N
ATOM	11338	CA	LEU	D	185	7.507	80.787	80.371	1.00	21.97	C
ATOM	11339	C	LEU	D	185	7.282	80.062	79.042	1.00	23.12	C
ATOM	11340	O	LEU	D	185	6.411	80.490	78.260	1.00	22.21	O
ATOM	11341	CB	LEU	D	185	6.178	80.911	81.125	1.00	21.03	C
ATOM	11342	CG	LEU	D	185	5.417	79.642	81.462	1.00	22.66	C
ATOM	11343	CD1	LEU	D	185	6.361	78.740	82.184	1.00	23.24	C
ATOM	11344	CD2	LEU	D	185	4.185	79.935	82.330	1.00	23.35	C
ATOM	11345	N	ALA	D	186	8.048	78.990	78.763	1.00	22.11	N
ATOM	11346	CA	ALA	D	186	7.878	78.289	77.476	1.00	21.59	C
ATOM	11347	C	ALA	D	186	6.443	77.822	77.193	1.00	20.71	C
ATOM	11348	O	ALA	D	186	5.982	77.920	76.065	1.00	22.14	O
ATOM	11349	CB	ALA	D	186	8.843	77.086	77.383	1.00	20.08	C
ATOM	11350	N	SER	D	187	5.753	77.309	78.201	1.00	21.13	N
ATOM	11351	CA	SER	D	187	4.398	76.830	77.982	1.00	22.79	C
ATOM	11352	C	SER	D	187	3.397	77.923	77.659	1.00	23.19	C
ATOM	11353	O	SER	D	187	2.247	77.626	77.347	1.00	23.73	O



ATOM	11354	CB	SER	D	187	3.909	76.054	79.192	1.00	23.94	C
ATOM	11355	OG	SER	D	187	3.938	76.872	80.345	1.00	27.76	O
ATOM	11356	N	GLU	D	188	3.821	79.177	77.754	1.00	22.91	N
ATOM	11357	CA	GLU	D	188	2.926	80.301	77.451	1.00	26.04	C
ATOM	11358	C	GLU	D	188	3.638	81.289	76.536	1.00	23.46	C
ATOM	11359	O	GLU	D	188	3.187	82.423	76.351	1.00	24.94	O
ATOM	11360	CB	GLU	D	188	2.509	81.024	78.740	1.00	26.40	C
ATOM	11361	CG	GLU	D	188	1.634	80.216	79.672	1.00	29.73	C
ATOM	11362	CD	GLU	D	188	0.388	79.668	78.985	1.00	31.09	C
ATOM	11363	OE1	GLU	D	188	-0.202	80.369	78.115	1.00	34.15	O
ATOM	11364	OE2	GLU	D	188	-0.015	78.531	79.321	1.00	31.72	O
ATOM	11365	N	LYS	D	189	4.740	80.834	75.949	1.00	24.12	N
ATOM	11366	CA	LYS	D	189	5.561	81.656	75.068	1.00	23.45	C
ATOM	11367	C	LYS	D	189	4.732	82.403	74.021	1.00	24.71	C
ATOM	11368	O	LYS	D	189	3.734	81.895	73.506	1.00	24.58	O
ATOM	11369	CB	LYS	D	189	6.611	80.774	74.384	1.00	23.24	C
ATOM	11370	CG	LYS	D	189	7.609	81.475	73.470	1.00	23.07	C
ATOM	11371	CD	LYS	D	189	7.068	81.591	72.057	1.00	24.26	C
ATOM	11372	CE	LYS	D	189	8.148	82.059	71.091	1.00	25.62	C
ATOM	11373	NZ	LYS	D	189	8.667	83.419	71.425	1.00	26.47	N
ATOM	11374	N	LYS	D	190	5.156	83.633	73.746	1.00	24.10	N
ATOM	11375	CA	LYS	D	190	4.485	84.479	72.767	1.00	24.08	C
ATOM	11376	C	LYS	D	190	5.528	85.196	71.949	1.00	23.44	C
ATOM	11377	O	LYS	D	190	6.686	85.344	72.365	1.00	23.36	O
ATOM	11378	CB	LYS	D	190	3.668	85.578	73.461	1.00	24.07	C
ATOM	11379	CG	LYS	D	190	2.552	85.090	74.343	1.00	25.40	C
ATOM	11380	CD	LYS	D	190	1.370	84.565	73.563	1.00	25.56	C
ATOM	11381	CE	LYS	D	190	0.193	84.312	74.495	1.00	27.30	C
ATOM	11382	NZ	LYS	D	190	0.569	83.406	75.647	1.00	23.43	N
ATOM	11383	N	CYS	D	191	5.097	85.629	70.773	1.00	23.55	N
ATOM	11384	CA	CYS	D	191	5.895	86.466	69.917	1.00	23.94	C
ATOM	11385	C	CYS	D	191	6.079	87.706	70.862	1.00	24.79	C
ATOM	11386	O	CYS	D	191	5.243	87.941	71.740	1.00	25.84	O
ATOM	11387	CB	CYS	D	191	5.030	86.787	68.698	1.00	24.91	C
ATOM	11388	SG	CYS	D	191	5.209	88.386	67.909	1.00	28.81	S
ATOM	11389	N	GLY	D	192	7.139	88.478	70.694	1.00	24.03	N
ATOM	11390	CA	GLY	D	192	7.333	89.626	71.570	1.00	26.03	C
ATOM	11391	C	GLY	D	192	6.307	90.742	71.435	1.00	27.40	C
ATOM	11392	O	GLY	D	192	6.207	91.600	72.323	1.00	27.25	O
ATOM	11393	N	HIS	D	193	5.519	90.705	70.357	1.00	27.13	N
ATOM	11394	CA	HIS	D	193	4.526	91.721	70.093	1.00	26.90	C
ATOM	11395	C	HIS	D	193	3.092	91.255	70.237	1.00	28.32	C
ATOM	11396	O	HIS	D	193	2.148	91.939	69.846	1.00	27.96	O
ATOM	11397	CB	HIS	D	193	4.844	92.311	68.730	1.00	27.31	C
ATOM	11398	CG	HIS	D	193	6.223	92.900	68.688	1.00	28.37	C
ATOM	11399	ND1	HIS	D	193	7.188	92.509	67.783	1.00	27.39	N
ATOM	11400	CD2	HIS	D	193	6.813	93.828	69.487	1.00	28.77	C
ATOM	11401	CE1	HIS	D	193	8.311	93.167	68.022	1.00	27.30	C
ATOM	11402	NE2	HIS	D	193	8.111	93.973	69.052	1.00	28.53	N
ATOM	11403	N	LEU	D	194	2.934	90.069	70.814	1.00	27.38	N
ATOM	11404	CA	LEU	D	194	1.609	89.543	71.087	1.00	27.50	C
ATOM	11405	C	LEU	D	194	1.379	89.821	72.564	1.00	27.95	C
ATOM	11406	O	LEU	D	194	2.314	90.168	73.281	1.00	30.67	O
ATOM	11407	CB	LEU	D	194	1.545	88.040	70.799	1.00	26.19	C
ATOM	11408	CG	LEU	D	194	1.303	87.720	69.310	1.00	27.94	C
ATOM	11409	CD1	LEU	D	194	1.454	86.219	69.065	1.00	28.49	C
ATOM	11410	CD2	LEU	D	194	-0.122	88.159	68.908	1.00	27.10	C
ATOM	11411	N	GLY	D	195	0.138	89.714	73.013	1.00	28.40	N
ATOM	11412	CA	GLY	D	195	-0.139	89.941	74.412	1.00	27.38	C
ATOM	11413	C	GLY	D	195	-0.113	88.593	75.087	1.00	27.76	C
ATOM	11414	O	GLY	D	195	0.260	87.585	74.453	1.00	26.45	O
ATOM	11415	N	GLY	D	196	-0.475	88.583	76.371	1.00	27.27	N
ATOM	11416	CA	GLY	D	196	-0.536	87.348	77.123	1.00	26.93	C
ATOM	11417	C	GLY	D	196	0.815	86.752	77.461	1.00	27.56	C
ATOM	11418	O	GLY	D	196	0.912	85.530	77.626	1.00	26.50	O
ATOM	11419	N	LYS	D	197	1.846	87.590	77.580	1.00	26.09	N
ATOM	11420	CA	LYS	D	197	3.188	87.081	77.921	1.00	25.53	C
ATOM	11421	C	LYS	D	197	3.393	86.900	79.429	1.00	25.13	C
ATOM	11422	O	LYS	D	197	2.837	87.643	80.237	1.00	23.77	O
ATOM	11423	CB	LYS	D	197	4.259	88.024	77.403	1.00	26.41	C
ATOM	11424	CG	LYS	D	197	4.247	88.176	75.917	1.00	27.43	C
ATOM	11425	CD	LYS	D	197	5.558	88.734	75.393	1.00	27.04	C
ATOM	11426	CE	LYS	D	197	5.778	90.198	75.726	1.00	27.38	C
ATOM	11427	NZ	LYS	D	197	7.013	90.646	75.054	1.00	28.07	N
ATOM	11428	N	VAL	D	198	4.224	85.920	79.796	1.00	24.32	N
ATOM	11429	CA	VAL	D	198	4.526	85.629	81.202	1.00	22.84	C
ATOM	11430	C	VAL	D	198	6.029	85.411	81.341	1.00	21.15	C
ATOM	11431	O	VAL	D	198	6.592	84.560	80.645	1.00	20.60	O
ATOM	11432	CB	VAL	D	198	3.808	84.367	81.663	1.00	23.49	C
ATOM	11433	CG1	VAL	D	198	4.102	84.094	83.148	1.00	22.82	C



ATOM	11434	CG2	VAL	D	198	2.309	84.511	81.438	1.00	23.46	C
ATOM	11435	N	LEU	D	199	6.672	86.202	82.201	1.00	19.82	N
ATOM	11436	CA	LEU	D	199	8.126	86.073	82.460	1.00	20.68	C
ATOM	11437	C	LEU	D	199	8.364	84.979	83.475	1.00	19.13	C
ATOM	11438	O	LEU	D	199	7.448	84.545	84.203	1.00	20.16	O
ATOM	11439	CB	LEU	D	199	8.707	87.348	83.083	1.00	21.00	C
ATOM	11440	CG	LEU	D	199	8.513	88.657	82.313	1.00	24.34	C
ATOM	11441	CD1	LEU	D	199	9.009	89.858	83.186	1.00	23.73	C
ATOM	11442	CD2	LEU	D	199	9.297	88.571	80.984	1.00	23.94	C
ATOM	11443	N	ILE	D	200	9.611	84.541	83.524	1.00	19.23	N
ATOM	11444	CA	ILE	D	200	10.034	83.567	84.493	1.00	20.24	C
ATOM	11445	C	ILE	D	200	11.026	84.366	85.337	1.00	20.52	C
ATOM	11446	O	ILE	D	200	11.463	85.450	84.925	1.00	21.16	O
ATOM	11447	CB	ILE	D	200	10.654	82.280	83.840	1.00	20.71	C
ATOM	11448	CG1	ILE	D	200	11.460	82.555	82.561	1.00	20.40	C
ATOM	11449	CG2	ILE	D	200	9.527	81.357	83.482	1.00	21.93	C
ATOM	11450	CD1	ILE	D	200	12.756	83.211	82.750	1.00	21.54	C
ATOM	11451	N	PRO	D	201	11.358	83.883	86.520	1.00	19.65	N
ATOM	11452	CA	PRO	D	201	12.300	84.631	87.367	1.00	20.86	C
ATOM	11453	C	PRO	D	201	13.638	84.896	86.715	1.00	20.98	C
ATOM	11454	O	PRO	D	201	14.108	84.112	85.914	1.00	19.80	O
ATOM	11455	CB	PRO	D	201	12.446	83.745	88.594	1.00	20.14	C
ATOM	11456	CG	PRO	D	201	11.134	82.958	88.609	1.00	22.19	C
ATOM	11457	CD	PRO	D	201	10.965	82.619	87.157	1.00	20.36	C
ATOM	11458	N	THR	D	202	14.275	85.997	87.106	1.00	20.98	N
ATOM	11459	CA	THR	D	202	15.583	86.365	86.575	1.00	20.09	C
ATOM	11460	C	THR	D	202	16.593	85.217	86.670	1.00	20.37	C
ATOM	11461	O	THR	D	202	17.313	84.928	85.704	1.00	18.58	O
ATOM	11462	CB	THR	D	202	16.130	87.616	87.359	1.00	21.04	C
ATOM	11463	OG1	THR	D	202	15.350	88.758	87.002	1.00	22.11	O
ATOM	11464	CG2	THR	D	202	17.550	87.911	87.004	1.00	19.78	C
ATOM	11465	N	GLN	D	203	16.652	84.558	87.823	1.00	20.11	N
ATOM	11466	CA	GLN	D	203	17.613	83.460	88.004	1.00	19.79	C
ATOM	11467	C	GLN	D	203	17.277	82.291	87.069	1.00	19.42	C
ATOM	11468	O	GLN	D	203	18.159	81.577	86.632	1.00	17.51	O
ATOM	11469	CB	GLN	D	203	17.612	82.953	89.459	1.00	22.23	C
ATOM	11470	CG	GLN	D	203	18.744	81.995	89.815	1.00	22.77	C
ATOM	11471	CD	GLN	D	203	20.103	82.550	89.436	1.00	24.75	C
ATOM	11472	OE1	GLN	D	203	20.334	83.753	89.516	1.00	24.99	O
ATOM	11473	NE2	GLN	D	203	21.010	81.679	89.029	1.00	26.14	N
ATOM	11474	N	GLN	D	204	16.000	82.095	86.774	1.00	18.57	N
ATOM	11475	CA	GLN	D	204	15.667	80.992	85.898	1.00	19.26	C
ATOM	11476	C	GLN	D	204	16.228	81.264	84.510	1.00	20.50	C
ATOM	11477	O	GLN	D	204	16.711	80.351	83.834	1.00	20.83	O
ATOM	11478	CB	GLN	D	204	14.143	80.789	85.855	1.00	20.38	C
ATOM	11479	CG	GLN	D	204	13.721	79.603	85.006	1.00	22.21	C
ATOM	11480	CD	GLN	D	204	12.252	79.209	85.195	1.00	19.76	C
ATOM	11481	OE1	GLN	D	204	11.670	79.414	86.252	1.00	20.67	O
ATOM	11482	NE2	GLN	D	204	11.672	78.608	84.167	1.00	17.66	N
ATOM	11483	N	HIS	D	205	16.191	82.507	84.056	1.00	18.39	N
ATOM	11484	CA	HIS	D	205	16.730	82.729	82.750	1.00	19.72	C
ATOM	11485	C	HIS	D	205	18.247	82.614	82.771	1.00	19.41	C
ATOM	11486	O	HIS	D	205	18.825	82.208	81.778	1.00	19.67	O
ATOM	11487	CB	HIS	D	205	16.296	84.067	82.135	1.00	20.18	C
ATOM	11488	CG	HIS	D	205	16.541	84.121	80.657	1.00	22.22	C
ATOM	11489	ND1	HIS	D	205	16.062	83.156	79.800	1.00	21.45	N
ATOM	11490	CD2	HIS	D	205	17.257	84.978	79.890	1.00	21.83	C
ATOM	11491	CE1	HIS	D	205	16.471	83.409	78.569	1.00	21.22	C
ATOM	11492	NE2	HIS	D	205	17.199	84.510	78.594	1.00	22.68	N
ATOM	11493	N	ILE	D	206	18.897	82.982	83.880	1.00	19.63	N
ATOM	11494	CA	ILE	D	206	20.361	82.797	83.974	1.00	19.97	C
ATOM	11495	C	ILE	D	206	20.670	81.300	83.878	1.00	20.55	C
ATOM	11496	O	ILE	D	206	21.707	80.875	83.331	1.00	20.70	O
ATOM	11497	CB	ILE	D	206	20.944	83.364	85.310	1.00	21.27	C
ATOM	11498	CG1	ILE	D	206	20.977	84.880	85.232	1.00	22.77	C
ATOM	11499	CG2	ILE	D	206	22.358	82.838	85.539	1.00	19.68	C
ATOM	11500	CD1	ILE	D	206	21.287	85.599	86.574	1.00	21.68	C
ATOM	11501	N	ARG	D	207	19.760	80.487	84.385	1.00	18.88	N
ATOM	11502	CA	ARG	D	207	19.963	79.042	84.289	1.00	19.34	C
ATOM	11503	C	ARG	D	207	19.864	78.679	82.796	1.00	18.24	C
ATOM	11504	O	ARG	D	207	20.655	77.875	82.307	1.00	19.71	O
ATOM	11505	CB	ARG	D	207	18.898	78.281	85.101	1.00	21.31	C
ATOM	11506	CG	ARG	D	207	19.208	78.170	86.610	1.00	26.36	C
ATOM	11507	CD	ARG	D	207	18.419	77.015	87.294	1.00	26.70	C
ATOM	11508	NE	ARG	D	207	16.962	77.155	87.205	1.00	28.76	N
ATOM	11509	CZ	ARG	D	207	16.238	78.044	87.888	1.00	31.97	C
ATOM	11510	NH1	ARG	D	207	16.838	78.900	88.727	1.00	31.93	N
ATOM	11511	NH2	ARG	D	207	14.906	78.056	87.759	1.00	28.29	N
ATOM	11512	N	THR	D	208	18.910	79.281	82.074	1.00	16.16	N
ATOM	11513	CA	THR	D	208	18.782	79.005	80.645	1.00	17.07	C



ATOM	11514	C	THR	D	208	20.072	79.412	79.898	1.00	17.69	C
ATOM	11515	O	THR	D	208	20.625	78.629	79.131	1.00	15.57	O
ATOM	11516	CB	THR	D	208	17.587	79.738	80.049	1.00	18.85	C
ATOM	11517	OG1	THR	D	208	16.376	79.142	80.541	1.00	18.61	O
ATOM	11518	CG2	THR	D	208	17.595	79.657	78.531	1.00	17.02	C
ATOM	11519	N	LEU	D	209	20.577	80.620	80.151	1.00	16.37	N
ATOM	11520	CA	LEU	D	209	21.803	81.072	79.469	1.00	16.91	C
ATOM	11521	C	LEU	D	209	22.996	80.198	79.834	1.00	16.21	C
ATOM	11522	O	LEU	D	209	23.853	79.929	79.011	1.00	17.23	O
ATOM	11523	CB	LEU	D	209	22.055	82.552	79.810	1.00	16.72	C
ATOM	11524	CG	LEU	D	209	20.905	83.441	79.338	1.00	14.88	C
ATOM	11525	CD1	LEU	D	209	21.102	84.866	79.984	1.00	15.74	C
ATOM	11526	CD2	LEU	D	209	20.862	83.558	77.818	1.00	15.10	C
ATOM	11527	N	THR	D	210	23.035	79.724	81.065	1.00	16.23	N
ATOM	11528	CA	THR	D	210	24.106	78.859	81.526	1.00	16.96	C
ATOM	11529	C	THR	D	210	24.029	77.538	80.778	1.00	17.97	C
ATOM	11530	O	THR	D	210	25.033	76.994	80.325	1.00	18.07	O
ATOM	11531	CB	THR	D	210	23.950	78.591	83.013	1.00	19.11	C
ATOM	11532	OG1	THR	D	210	24.294	79.778	83.732	1.00	20.83	O
ATOM	11533	CG2	THR	D	210	24.889	77.453	83.472	1.00	18.44	C
ATOM	11534	N	SER	D	211	22.825	77.002	80.683	1.00	15.92	N
ATOM	11535	CA	SER	D	211	22.639	75.745	79.940	1.00	15.37	C
ATOM	11536	C	SER	D	211	23.034	75.903	78.464	1.00	14.62	C
ATOM	11537	O	SER	D	211	23.658	75.030	77.905	1.00	14.79	O
ATOM	11538	CB	SER	D	211	21.168	75.293	80.013	1.00	15.69	C
ATOM	11539	OG	SER	D	211	21.025	74.003	79.406	1.00	19.25	O
ATOM	11540	N	ALA	D	212	22.644	77.004	77.834	1.00	17.21	N
ATOM	11541	CA	ALA	D	212	22.970	77.212	76.415	1.00	17.38	C
ATOM	11542	C	ALA	D	212	24.491	77.268	76.269	1.00	19.21	C
ATOM	11543	O	ALA	D	212	25.053	76.705	75.330	1.00	17.56	O
ATOM	11544	CB	ALA	D	212	22.314	78.475	75.888	1.00	16.84	C
ATOM	11545	N	ARG	D	213	25.167	77.914	77.226	1.00	19.11	N
ATOM	11546	CA	ARG	D	213	26.639	77.977	77.164	1.00	19.41	C
ATOM	11547	C	ARG	D	213	27.284	76.616	77.389	1.00	17.76	C
ATOM	11548	O	ARG	D	213	28.196	76.237	76.690	1.00	19.00	O
ATOM	11549	CB	ARG	D	213	27.192	78.955	78.201	1.00	21.22	C
ATOM	11550	CG	ARG	D	213	28.715	79.099	78.117	1.00	22.31	C
ATOM	11551	CD	ARG	D	213	29.127	79.890	76.885	1.00	25.13	C
ATOM	11552	NE	ARG	D	213	28.897	81.308	77.117	1.00	26.06	N
ATOM	11553	CZ	ARG	D	213	28.855	82.237	76.169	1.00	30.12	C
ATOM	11554	NH1	ARG	D	213	29.013	81.911	74.888	1.00	28.92	N
ATOM	11555	NH2	ARG	D	213	28.686	83.505	76.511	1.00	29.39	N
ATOM	11556	N	LEU	D	214	26.809	75.888	78.389	1.00	18.29	N
ATOM	11557	CA	LEU	D	214	27.309	74.575	78.708	1.00	17.23	C
ATOM	11558	C	LEU	D	214	27.219	73.644	77.490	1.00	18.56	C
ATOM	11559	O	LEU	D	214	28.130	72.854	77.260	1.00	16.35	O
ATOM	11560	CB	LEU	D	214	26.485	73.906	79.847	1.00	15.42	C
ATOM	11561	CG	LEU	D	214	26.928	72.466	80.171	1.00	16.00	C
ATOM	11562	CD1	LEU	D	214	28.379	72.511	80.679	1.00	17.26	C
ATOM	11563	CD2	LEU	D	214	25.994	71.764	81.258	1.00	14.55	C
ATOM	11564	N	ALA	D	215	26.116	73.694	76.742	1.00	18.75	N
ATOM	11565	CA	ALA	D	215	25.988	72.765	75.585	1.00	19.65	C
ATOM	11566	C	ALA	D	215	27.036	73.104	74.524	1.00	19.46	C
ATOM	11567	O	ALA	D	215	27.619	72.231	73.906	1.00	19.46	O
ATOM	11568	CB	ALA	D	215	24.545	72.846	74.974	1.00	17.00	C
ATOM	11569	N	ALA	D	216	27.269	74.382	74.329	1.00	18.84	N
ATOM	11570	CA	ALA	D	216	28.261	74.824	73.343	1.00	19.46	C
ATOM	11571	C	ALA	D	216	29.669	74.395	73.798	1.00	20.38	C
ATOM	11572	O	ALA	D	216	30.454	73.889	72.990	1.00	21.47	O
ATOM	11573	CB	ALA	D	216	28.165	76.313	73.180	1.00	19.03	C
ATOM	11574	N	ASP	D	217	29.981	74.561	75.087	1.00	22.01	N
ATOM	11575	CA	ASP	D	217	31.281	74.098	75.596	1.00	20.01	C
ATOM	11576	C	ASP	D	217	31.430	72.584	75.447	1.00	21.02	C
ATOM	11577	O	ASP	D	217	32.491	72.089	75.062	1.00	20.30	O
ATOM	11578	CB	ASP	D	217	31.488	74.469	77.084	1.00	22.17	C
ATOM	11579	CG	ASP	D	217	31.595	75.969	77.310	1.00	23.08	C
ATOM	11580	OD1	ASP	D	217	31.945	76.718	76.379	1.00	23.52	O
ATOM	11581	OD2	ASP	D	217	31.320	76.425	78.447	1.00	26.87	O
ATOM	11582	N	VAL	D	218	30.382	71.822	75.760	1.00	19.59	N
ATOM	11583	CA	VAL	D	218	30.466	70.382	75.641	1.00	19.04	C
ATOM	11584	C	VAL	D	218	30.694	69.997	74.192	1.00	19.34	C
ATOM	11585	O	VAL	D	218	31.468	69.074	73.921	1.00	20.85	O
ATOM	11586	CB	VAL	D	218	29.182	69.696	76.249	1.00	19.76	C
ATOM	11587	CG1	VAL	D	218	29.089	68.233	75.831	1.00	19.03	C
ATOM	11588	CG2	VAL	D	218	29.259	69.748	77.808	1.00	17.78	C
ATOM	11589	N	ALA	D	219	30.059	70.722	73.267	1.00	20.17	N
ATOM	11590	CA	ALA	D	219	30.233	70.443	71.841	1.00	22.02	C
ATOM	11591	C	ALA	D	219	31.558	71.042	71.346	1.00	24.04	C
ATOM	11592	O	ALA	D	219	31.980	70.767	70.229	1.00	25.20	O
ATOM	11593	CB	ALA	D	219	29.070	70.999	71.045	1.00	20.19	C



ATOM	11594	N	ASP	D	220	32.193	71.870	72.177	1.00	25.00	N
ATOM	11595	CA	ASP	D	220	33.481	72.480	71.829	1.00	25.56	C
ATOM	11596	C	ASP	D	220	33.479	73.533	70.719	1.00	24.51	C
ATOM	11597	O	ASP	D	220	34.376	73.552	69.894	1.00	25.77	O
ATOM	11598	CB	ASP	D	220	34.494	71.376	71.493	1.00	27.54	C
ATOM	11599	CG	ASP	D	220	35.942	71.902	71.389	1.00	31.12	C
ATOM	11600	OD1	ASP	D	220	36.279	72.887	72.082	1.00	31.66	O
ATOM	11601	OD2	ASP	D	220	36.737	71.312	70.622	1.00	32.55	O
ATOM	11602	N	VAL	D	221	32.458	74.379	70.671	1.00	24.74	N
ATOM	11603	CA	VAL	D	221	32.393	75.458	69.703	1.00	24.80	C
ATOM	11604	C	VAL	D	221	31.981	76.760	70.405	1.00	25.01	C
ATOM	11605	O	VAL	D	221	31.172	76.766	71.322	1.00	24.94	O
ATOM	11606	CB	VAL	D	221	31.398	75.165	68.542	1.00	26.70	C
ATOM	11607	CG1	VAL	D	221	31.816	73.872	67.795	1.00	25.33	C
ATOM	11608	CG2	VAL	D	221	29.999	75.018	69.110	1.00	24.81	C
ATOM	11609	N	PRO	D	222	32.538	77.896	69.954	1.00	25.07	N
ATOM	11610	CA	PRO	D	222	32.318	79.252	70.471	1.00	24.83	C
ATOM	11611	C	PRO	D	222	31.006	79.927	70.113	1.00	23.31	C
ATOM	11612	O	PRO	D	222	30.966	81.109	69.839	1.00	25.04	O
ATOM	11613	CB	PRO	D	222	33.526	80.002	69.908	1.00	26.04	C
ATOM	11614	CG	PRO	D	222	33.578	79.419	68.515	1.00	23.56	C
ATOM	11615	CD	PRO	D	222	33.497	77.925	68.831	1.00	24.96	C
ATOM	11616	N	THR	D	223	29.903	79.186	70.149	1.00	22.25	N
ATOM	11617	CA	THR	D	223	28.621	79.772	69.794	1.00	20.78	C
ATOM	11618	C	THR	D	223	28.335	81.141	70.422	1.00	20.97	C
ATOM	11619	O	THR	D	223	28.643	81.418	71.612	1.00	22.54	O
ATOM	11620	CB	THR	D	223	27.454	78.818	70.194	1.00	18.08	C
ATOM	11621	OG1	THR	D	223	27.807	77.477	69.847	1.00	19.74	O
ATOM	11622	CG2	THR	D	223	26.160	79.251	69.531	1.00	19.67	C
ATOM	11623	N	VAL	D	224	27.687	82.004	69.667	1.00	20.52	N
ATOM	11624	CA	VAL	D	224	27.375	83.289	70.251	1.00	22.28	C
ATOM	11625	C	VAL	D	224	26.043	83.121	70.997	1.00	24.55	C
ATOM	11626	O	VAL	D	224	25.032	82.720	70.406	1.00	25.60	O
ATOM	11627	CB	VAL	D	224	27.308	84.387	69.148	1.00	23.61	C
ATOM	11628	CG1	VAL	D	224	26.860	85.681	69.717	1.00	22.10	C
ATOM	11629	CG2	VAL	D	224	28.702	84.579	68.519	1.00	25.22	C
ATOM	11630	N	VAL	D	225	26.051	83.373	72.305	1.00	22.32	N
ATOM	11631	CA	VAL	D	225	24.846	83.249	73.100	1.00	22.58	C
ATOM	11632	C	VAL	D	225	24.179	84.609	73.279	1.00	21.95	C
ATOM	11633	O	VAL	D	225	24.777	85.551	73.800	1.00	23.43	O
ATOM	11634	CB	VAL	D	225	25.155	82.606	74.482	1.00	21.24	C
ATOM	11635	CG1	VAL	D	225	23.873	82.565	75.354	1.00	22.36	C
ATOM	11636	CG2	VAL	D	225	25.720	81.199	74.297	1.00	23.63	C
ATOM	11637	N	ILE	D	226	22.918	84.715	72.877	1.00	22.95	N
ATOM	11638	CA	ILE	D	226	22.204	85.968	72.970	1.00	22.55	C
ATOM	11639	C	ILE	D	226	21.063	85.937	73.991	1.00	23.98	C
ATOM	11640	O	ILE	D	226	20.227	85.024	73.985	1.00	21.77	O
ATOM	11641	CB	ILE	D	226	21.677	86.336	71.577	1.00	23.62	C
ATOM	11642	CG1	ILE	D	226	22.874	86.307	70.613	1.00	22.18	C
ATOM	11643	CG2	ILE	D	226	20.941	87.686	71.604	1.00	24.40	C
ATOM	11644	CD1	ILE	D	226	22.505	86.343	69.120	1.00	24.85	C
ATOM	11645	N	ALA	D	227	21.026	86.939	74.871	1.00	21.77	N
ATOM	11646	CA	ALA	D	227	19.969	87.010	75.864	1.00	24.40	C
ATOM	11647	C	ALA	D	227	18.883	88.009	75.486	1.00	24.46	C
ATOM	11648	O	ALA	D	227	19.181	89.165	75.145	1.00	27.16	O
ATOM	11649	CB	ALA	D	227	20.563	87.361	77.260	1.00	22.71	C
ATOM	11650	N	ARG	D	228	17.622	87.588	75.554	1.00	24.27	N
ATOM	11651	CA	ARG	D	228	16.512	88.478	75.221	1.00	23.03	C
ATOM	11652	C	ARG	D	228	15.542	88.632	76.392	1.00	24.73	C
ATOM	11653	O	ARG	D	228	15.173	87.643	77.037	1.00	24.17	O
ATOM	11654	CB	ARG	D	228	15.744	87.939	73.982	1.00	24.29	C
ATOM	11655	CG	ARG	D	228	14.240	88.322	73.913	1.00	23.90	C
ATOM	11656	CD	ARG	D	228	13.481	87.802	72.668	1.00	24.22	C
ATOM	11657	NE	ARG	D	228	12.036	87.907	72.882	1.00	23.19	N
ATOM	11658	CZ	ARG	D	228	11.088	87.596	72.005	1.00	22.92	C
ATOM	11659	NH1	ARG	D	228	11.400	87.139	70.798	1.00	24.79	N
ATOM	11660	NH2	ARG	D	228	9.801	87.747	72.342	1.00	23.91	N
ATOM	11661	N	THR	D	229	15.123	89.861	76.681	1.00	21.46	N
ATOM	11662	CA	THR	D	229	14.169	90.020	77.753	1.00	22.95	C
ATOM	11663	C	THR	D	229	12.861	90.521	77.191	1.00	22.35	C
ATOM	11664	O	THR	D	229	12.852	91.342	76.287	1.00	23.81	O
ATOM	11665	CB	THR	D	229	14.663	91.001	78.852	1.00	22.79	C
ATOM	11666	OG1	THR	D	229	13.706	91.025	79.906	1.00	25.23	O
ATOM	11667	CG2	THR	D	229	14.831	92.440	78.280	1.00	24.68	C
ATOM	11668	N	ASP	D	230	11.751	90.019	77.720	1.00	23.47	N
ATOM	11669	CA	ASP	D	230	10.420	90.431	77.283	1.00	22.80	C
ATOM	11670	C	ASP	D	230	9.682	91.301	78.305	1.00	24.04	C
ATOM	11671	O	ASP	D	230	8.457	91.417	78.237	1.00	23.21	O
ATOM	11672	CB	ASP	D	230	9.557	89.205	77.026	1.00	23.68	C
ATOM	11673	CG	ASP	D	230	9.769	88.628	75.648	1.00	25.39	C



ATOM	11674	OD1	ASP	D	230	9.129	89.110	74.689	1.00	27.33	O
ATOM	11675	OD2	ASP	D	230	10.593	87.705	75.513	1.00	26.95	O
ATOM	11676	N	ALA	D	231	10.420	91.926	79.218	1.00	23.68	N
ATOM	11677	CA	ALA	D	231	9.824	92.688	80.318	1.00	25.74	C
ATOM	11678	C	ALA	D	231	9.173	94.038	80.030	1.00	27.06	C
ATOM	11679	O	ALA	D	231	8.473	94.562	80.880	1.00	28.30	O
ATOM	11680	CB	ALA	D	231	10.861	92.855	81.439	1.00	24.76	C
ATOM	11681	N	GLU	D	232	9.382	94.578	78.842	1.00	28.29	N
ATOM	11682	CA	GLU	D	232	8.836	95.877	78.487	1.00	29.08	C
ATOM	11683	C	GLU	D	232	7.318	95.776	78.407	1.00	28.70	C
ATOM	11684	O	GLU	D	232	6.615	96.653	78.899	1.00	29.76	O
ATOM	11685	CB	GLU	D	232	9.462	96.318	77.158	1.00	31.87	C
ATOM	11686	CG	GLU	D	232	9.265	97.778	76.763	1.00	35.90	C
ATOM	11687	CD	GLU	D	232	7.871	98.048	76.214	1.00	39.01	C
ATOM	11688	OE1	GLU	D	232	7.468	97.392	75.217	1.00	38.72	O
ATOM	11689	OE2	GLU	D	232	7.173	98.920	76.787	1.00	39.60	O
ATOM	11690	N	ALA	D	233	6.799	94.688	77.829	1.00	27.34	N
ATOM	11691	CA	ALA	D	233	5.350	94.523	77.686	1.00	26.29	C
ATOM	11692	C	ALA	D	233	4.725	93.528	78.649	1.00	26.37	C
ATOM	11693	O	ALA	D	233	3.554	93.659	79.015	1.00	28.18	O
ATOM	11694	CB	ALA	D	233	5.017	94.135	76.254	1.00	25.53	C
ATOM	11695	N	ALA	D	234	5.497	92.540	79.085	1.00	25.99	N
ATOM	11696	CA	ALA	D	234	4.941	91.528	79.982	1.00	25.37	C
ATOM	11697	C	ALA	D	234	4.425	92.066	81.319	1.00	27.21	C
ATOM	11698	O	ALA	D	234	5.123	92.797	82.026	1.00	27.97	O
ATOM	11699	CB	ALA	D	234	5.971	90.416	80.207	1.00	25.91	C
ATOM	11700	N	THR	D	235	3.183	91.722	81.652	1.00	26.43	N
ATOM	11701	CA	THR	D	235	2.591	92.158	82.920	1.00	28.07	C
ATOM	11702	C	THR	D	235	2.378	90.970	83.842	1.00	26.61	C
ATOM	11703	O	THR	D	235	1.696	91.087	84.865	1.00	26.69	O
ATOM	11704	CB	THR	D	235	1.219	92.881	82.671	1.00	28.67	C
ATOM	11705	OG1	THR	D	235	0.221	91.932	82.259	1.00	30.94	O
ATOM	11706	CG2	THR	D	235	1.378	93.905	81.570	1.00	28.78	C
ATOM	11707	N	LEU	D	236	2.956	89.814	83.479	1.00	26.25	N
ATOM	11708	CA	LEU	D	236	2.806	88.598	84.278	1.00	24.54	C
ATOM	11709	C	LEU	D	236	4.139	87.918	84.453	1.00	23.56	C
ATOM	11710	O	LEU	D	236	5.020	88.030	83.579	1.00	23.93	O
ATOM	11711	CB	LEU	D	236	1.854	87.607	83.601	1.00	26.40	C
ATOM	11712	CG	LEU	D	236	0.393	88.025	83.430	1.00	26.87	C
ATOM	11713	CD1	LEU	D	236	-0.351	86.996	82.596	1.00	27.29	C
ATOM	11714	CD2	LEU	D	236	-0.242	88.135	84.800	1.00	27.68	C
ATOM	11715	N	ILE	D	237	4.279	87.249	85.597	1.00	23.44	N
ATOM	11716	CA	ILE	D	237	5.487	86.501	85.960	1.00	21.83	C
ATOM	11717	C	ILE	D	237	5.047	85.249	86.731	1.00	21.62	C
ATOM	11718	O	ILE	D	237	4.035	85.238	87.468	1.00	22.26	O
ATOM	11719	CB	ILE	D	237	6.477	87.391	86.793	1.00	23.57	C
ATOM	11720	CG1	ILE	D	237	7.803	86.648	86.997	1.00	22.33	C
ATOM	11721	CG2	ILE	D	237	5.805	87.829	88.086	1.00	20.09	C
ATOM	11722	CD1	ILE	D	237	8.960	87.485	87.576	1.00	23.04	C
ATOM	11723	N	THR	D	238	5.793	84.158	86.551	1.00	20.53	N
ATOM	11724	CA	THR	D	238	5.404	82.944	87.192	1.00	20.67	C
ATOM	11725	C	THR	D	238	5.543	82.958	88.697	1.00	21.37	C
ATOM	11726	O	THR	D	238	4.741	82.345	89.381	1.00	22.16	O
ATOM	11727	CB	THR	D	238	6.218	81.761	86.640	1.00	19.04	C
ATOM	11728	OG1	THR	D	238	7.606	82.056	86.822	1.00	18.87	O
ATOM	11729	CG2	THR	D	238	5.955	81.561	85.127	1.00	19.89	C
ATOM	11730	N	SER	D	239	6.547	83.662	89.211	1.00	22.43	N
ATOM	11731	CA	SER	D	239	6.821	83.669	90.652	1.00	24.54	C
ATOM	11732	C	SER	D	239	7.555	84.908	91.125	1.00	25.04	C
ATOM	11733	O	SER	D	239	8.272	85.545	90.352	1.00	25.90	O
ATOM	11734	CB	SER	D	239	7.695	82.452	91.017	1.00	22.93	C
ATOM	11735	OG	SER	D	239	7.972	82.355	92.414	1.00	27.68	O
ATOM	11736	N	ASP	D	240	7.401	85.204	92.416	1.00	25.20	N
ATOM	11737	CA	ASP	D	240	8.060	86.357	93.033	1.00	26.36	C
ATOM	11738	C	ASP	D	240	9.227	85.870	93.884	1.00	25.04	C
ATOM	11739	O	ASP	D	240	9.693	86.565	94.792	1.00	24.59	O
ATOM	11740	CB	ASP	D	240	7.060	87.120	93.909	1.00	27.72	C
ATOM	11741	CG	ASP	D	240	6.622	86.337	95.134	1.00	29.07	C
ATOM	11742	OD1	ASP	D	240	6.736	85.085	95.182	1.00	28.02	O
ATOM	11743	OD2	ASP	D	240	6.136	86.998	96.073	1.00	32.80	O
ATOM	11744	N	VAL	D	241	9.695	84.667	93.578	1.00	26.57	N
ATOM	11745	CA	VAL	D	241	10.785	84.068	94.328	1.00	25.90	C
ATOM	11746	C	VAL	D	241	12.119	84.816	94.247	1.00	25.46	C
ATOM	11747	O	VAL	D	241	12.874	84.811	95.224	1.00	26.01	O
ATOM	11748	CB	VAL	D	241	11.035	82.592	93.882	1.00	25.86	C
ATOM	11749	CG1	VAL	D	241	11.492	82.552	92.437	1.00	24.79	C
ATOM	11750	CG2	VAL	D	241	12.066	81.954	94.786	1.00	25.07	C
ATOM	11751	N	ASP	D	242	12.410	85.450	93.111	1.00	24.05	N
ATOM	11752	CA	ASP	D	242	13.687	86.160	92.930	1.00	24.94	C
ATOM	11753	C	ASP	D	242	13.612	87.593	93.466	1.00	25.96	C



ATOM	11754	O	ASP	D	242	12.735	88.375	93.086	1.00	23.48	O
ATOM	11755	CB	ASP	D	242	14.085	86.167	91.441	1.00	23.69	C
ATOM	11756	CG	ASP	D	242	15.555	86.506	91.208	1.00	24.51	C
ATOM	11757	OD1	ASP	D	242	16.057	87.476	91.818	1.00	25.05	O
ATOM	11758	OD2	ASP	D	242	16.225	85.825	90.394	1.00	24.09	O
ATOM	11759	N	GLU	D	243	14.569	87.937	94.324	1.00	27.04	N
ATOM	11760	CA	GLU	D	243	14.589	89.264	94.922	1.00	29.00	C
ATOM	11761	C	GLU	D	243	14.768	90.379	93.921	1.00	27.89	C
ATOM	11762	O	GLU	D	243	14.321	91.506	94.148	1.00	27.59	O
ATOM	11763	CB	GLU	D	243	15.657	89.304	96.029	1.00	32.04	C
ATOM	11764	CG	GLU	D	243	15.106	88.665	97.300	1.00	36.56	C
ATOM	11765	CD	GLU	D	243	16.080	88.623	98.469	1.00	40.98	C
ATOM	11766	OE1	GLU	D	243	16.916	89.549	98.584	1.00	42.09	O
ATOM	11767	OE2	GLU	D	243	15.984	87.665	99.282	1.00	41.90	O
ATOM	11768	N	ARG	D	244	15.383	90.076	92.786	1.00	27.00	N
ATOM	11769	CA	ARG	D	244	15.566	91.125	91.775	1.00	27.35	C
ATOM	11770	C	ARG	D	244	14.264	91.450	91.036	1.00	26.91	C
ATOM	11771	O	ARG	D	244	14.147	92.497	90.396	1.00	26.44	O
ATOM	11772	CB	ARG	D	244	16.650	90.710	90.774	1.00	27.88	C
ATOM	11773	CG	ARG	D	244	17.983	90.487	91.430	1.00	25.77	C
ATOM	11774	CD	ARG	D	244	18.943	89.732	90.540	1.00	27.91	C
ATOM	11775	NE	ARG	D	244	18.597	88.313	90.462	1.00	27.07	N
ATOM	11776	CZ	ARG	D	244	19.449	87.361	90.103	1.00	27.22	C
ATOM	11777	NH1	ARG	D	244	20.699	87.675	89.784	1.00	25.25	N
ATOM	11778	NH2	ARG	D	244	19.045	86.087	90.084	1.00	27.83	N
ATOM	11779	N	ASP	D	245	13.282	90.555	91.134	1.00	25.73	N
ATOM	11780	CA	ASP	D	245	12.001	90.746	90.458	1.00	24.72	C
ATOM	11781	C	ASP	D	245	10.906	91.336	91.363	1.00	23.44	C
ATOM	11782	O	ASP	D	245	9.955	91.974	90.900	1.00	24.88	O
ATOM	11783	CB	ASP	D	245	11.524	89.404	89.876	1.00	24.57	C
ATOM	11784	CG	ASP	D	245	12.524	88.791	88.908	1.00	23.83	C
ATOM	11785	OD1	ASP	D	245	13.185	89.540	88.153	1.00	25.66	O
ATOM	11786	OD2	ASP	D	245	12.666	87.536	88.886	1.00	25.14	O
ATOM	11787	N	GLN	D	246	11.052	91.116	92.654	1.00	23.51	N
ATOM	11788	CA	GLN	D	246	10.106	91.579	93.644	1.00	24.93	C
ATOM	11789	C	GLN	D	246	9.786	93.076	93.591	1.00	26.61	C
ATOM	11790	O	GLN	D	246	8.659	93.479	93.879	1.00	26.09	O
ATOM	11791	CB	GLN	D	246	10.623	91.225	95.028	1.00	26.10	C
ATOM	11792	CG	GLN	D	246	10.400	89.773	95.371	1.00	27.47	C
ATOM	11793	CD	GLN	D	246	11.247	89.309	96.523	1.00	28.73	C
ATOM	11794	OE1	GLN	D	246	11.660	90.109	97.374	1.00	29.75	O
ATOM	11795	NE2	GLN	D	246	11.510	88.008	96.571	1.00	27.81	N
ATOM	11796	N	PRO	D	247	10.760	93.916	93.236	1.00	27.08	N
ATOM	11797	CA	PRO	D	247	10.360	95.330	93.219	1.00	29.18	C
ATOM	11798	C	PRO	D	247	9.271	95.660	92.222	1.00	29.55	C
ATOM	11799	O	PRO	D	247	8.615	96.699	92.333	1.00	31.37	O
ATOM	11800	CB	PRO	D	247	11.661	96.065	92.886	1.00	29.45	C
ATOM	11801	CG	PRO	D	247	12.719	95.191	93.462	1.00	28.21	C
ATOM	11802	CD	PRO	D	247	12.226	93.785	93.097	1.00	29.04	C
ATOM	11803	N	PHE	D	248	9.049	94.774	91.259	1.00	30.00	N
ATOM	11804	CA	PHE	D	248	8.059	95.052	90.234	1.00	28.89	C
ATOM	11805	C	PHE	D	248	6.776	94.300	90.455	1.00	29.16	C
ATOM	11806	O	PHE	D	248	5.783	94.546	89.772	1.00	30.15	O
ATOM	11807	CB	PHE	D	248	8.651	94.710	88.869	1.00	28.94	C
ATOM	11808	CG	PHE	D	248	9.956	95.394	88.597	1.00	28.32	C
ATOM	11809	CD1	PHE	D	248	9.993	96.757	88.320	1.00	29.11	C
ATOM	11810	CD2	PHE	D	248	11.154	94.692	88.636	1.00	28.83	C
ATOM	11811	CE1	PHE	D	248	11.199	97.402	88.086	1.00	28.27	C
ATOM	11812	CE2	PHE	D	248	12.374	95.339	88.405	1.00	28.78	C
ATOM	11813	CZ	PHE	D	248	12.396	96.693	88.129	1.00	28.24	C
ATOM	11814	N	ILE	D	249	6.798	93.397	91.424	1.00	29.28	N
ATOM	11815	CA	ILE	D	249	5.644	92.575	91.768	1.00	31.55	C
ATOM	11816	C	ILE	D	249	4.573	93.425	92.443	1.00	32.63	C
ATOM	11817	O	ILE	D	249	4.869	94.126	93.412	1.00	33.80	O
ATOM	11818	CB	ILE	D	249	6.080	91.433	92.717	1.00	31.46	C
ATOM	11819	CG1	ILE	D	249	6.945	90.438	91.946	1.00	33.46	C
ATOM	11820	CG2	ILE	D	249	4.874	90.764	93.341	1.00	31.89	C
ATOM	11821	CD1	ILE	D	249	6.308	89.907	90.684	1.00	32.40	C
ATOM	11822	N	THR	D	250	3.340	93.354	91.948	1.00	33.48	N
ATOM	11823	CA	THR	D	250	2.245	94.157	92.495	1.00	34.83	C
ATOM	11824	C	THR	D	250	1.411	93.525	93.614	1.00	34.88	C
ATOM	11825	O	THR	D	250	0.827	94.238	94.424	1.00	37.20	O
ATOM	11826	CB	THR	D	250	1.244	94.573	91.386	1.00	36.02	C
ATOM	11827	OG1	THR	D	250	0.486	93.425	90.975	1.00	37.53	O
ATOM	11828	CG2	THR	D	250	1.977	95.152	90.181	1.00	35.65	C
ATOM	11829	N	GLY	D	251	1.333	92.203	93.657	1.00	33.85	N
ATOM	11830	CA	GLY	D	251	0.534	91.553	94.673	1.00	33.48	C
ATOM	11831	C	GLY	D	251	-0.678	90.864	94.064	1.00	33.07	C
ATOM	11832	O	GLY	D	251	-1.103	89.814	94.539	1.00	34.77	O
ATOM	11833	N	GLU	D	252	-1.244	91.463	93.020	1.00	33.19	N



ATOM	11834	CA	GLU	D	252	-2.403	90.893	92.331	1.00	32.50	C
ATOM	11835	C	GLU	D	252	-1.997	89.555	91.691	1.00	32.22	C
ATOM	11836	O	GLU	D	252	-0.842	89.365	91.305	1.00	31.17	O
ATOM	11837	CB	GLU	D	252	-2.893	91.848	91.241	1.00	34.56	C
ATOM	11838	CG	GLU	D	252	-3.251	93.265	91.707	1.00	37.47	C
ATOM	11839	CD	GLU	D	252	-4.669	93.376	92.252	1.00	40.62	C
ATOM	11840	OE1	GLU	D	252	-5.459	92.414	92.097	1.00	40.67	O
ATOM	11841	OE2	GLU	D	252	-5.001	94.444	92.818	1.00	41.81	O
ATOM	11842	N	ARG	D	253	-2.970	88.657	91.547	1.00	31.92	N
ATOM	11843	CA	ARG	D	253	-2.735	87.322	91.006	1.00	32.53	C
ATOM	11844	C	ARG	D	253	-3.894	86.885	90.120	1.00	33.35	C
ATOM	11845	O	ARG	D	253	-5.019	87.385	90.248	1.00	32.75	O
ATOM	11846	CB	ARG	D	253	-2.610	86.341	92.166	1.00	34.09	C
ATOM	11847	CG	ARG	D	253	-1.576	86.761	93.198	1.00	34.64	C
ATOM	11848	CD	ARG	D	253	-0.217	86.253	92.808	1.00	36.83	C
ATOM	11849	NE	ARG	D	253	-0.142	84.789	92.808	1.00	36.33	N
ATOM	11850	CZ	ARG	D	253	-0.041	84.032	93.898	1.00	36.86	C
ATOM	11851	NH1	ARG	D	253	-0.014	84.580	95.100	1.00	39.30	N
ATOM	11852	NH2	ARG	D	253	0.088	82.723	93.790	1.00	37.58	N
ATOM	11853	N	THR	D	254	-3.617	85.936	89.230	1.00	32.48	N
ATOM	11854	CA	THR	D	254	-4.617	85.422	88.312	1.00	32.18	C
ATOM	11855	C	THR	D	254	-5.103	84.055	88.785	1.00	31.39	C
ATOM	11856	O	THR	D	254	-4.484	83.430	89.652	1.00	31.37	O
ATOM	11857	CB	THR	D	254	-4.028	85.284	86.912	1.00	32.19	C
ATOM	11858	OG1	THR	D	254	-3.046	84.244	86.920	1.00	33.76	O
ATOM	11859	CG2	THR	D	254	-3.350	86.561	86.501	1.00	34.05	C
ATOM	11860	N	ARG	D	255	-6.219	83.591	88.236	1.00	31.82	N
ATOM	11861	CA	ARG	D	255	-6.730	82.288	88.623	1.00	32.46	C
ATOM	11862	C	ARG	D	255	-5.714	81.187	88.285	1.00	31.62	C
ATOM	11863	O	ARG	D	255	-5.753	80.104	88.868	1.00	33.36	O
ATOM	11864	CB	ARG	D	255	-8.094	82.010	87.951	1.00	36.07	C
ATOM	11865	CG	ARG	D	255	-9.182	83.023	88.379	1.00	40.07	C
ATOM	11866	CD	ARG	D	255	-10.506	82.954	87.576	1.00	44.88	C
ATOM	11867	NE	ARG	D	255	-11.500	82.138	88.260	1.00	48.87	N
ATOM	11868	CZ	ARG	D	255	-11.842	82.298	89.536	1.00	51.09	C
ATOM	11869	NH1	ARG	D	255	-11.280	83.257	90.272	1.00	52.81	N
ATOM	11870	NH2	ARG	D	255	-12.709	81.468	90.097	1.00	53.32	N
ATOM	11871	N	GLU	D	256	-4.781	81.456	87.377	1.00	30.35	N
ATOM	11872	CA	GLU	D	256	-3.790	80.424	87.032	1.00	30.11	C
ATOM	11873	C	GLU	D	256	-2.700	80.375	88.091	1.00	29.47	C
ATOM	11874	O	GLU	D	256	-1.949	79.398	88.183	1.00	28.62	O
ATOM	11875	CB	GLU	D	256	-3.159	80.682	85.653	1.00	30.48	C
ATOM	11876	CG	GLU	D	256	-4.165	80.657	84.492	1.00	31.26	C
ATOM	11877	CD	GLU	D	256	-4.560	82.059	84.034	1.00	31.68	C
ATOM	11878	OE1	GLU	D	256	-4.708	82.955	84.893	1.00	33.04	O
ATOM	11879	OE2	GLU	D	256	-4.728	82.270	82.811	1.00	31.43	O
ATOM	11880	N	GLY	D	257	-2.628	81.440	88.888	1.00	29.88	N
ATOM	11881	CA	GLY	D	257	-1.640	81.531	89.943	1.00	27.85	C
ATOM	11882	C	GLY	D	257	-0.500	82.447	89.575	1.00	28.74	C
ATOM	11883	O	GLY	D	257	0.456	82.615	90.360	1.00	27.83	O
ATOM	11884	N	PHE	D	258	-0.579	83.043	88.384	1.00	28.69	N
ATOM	11885	CA	PHE	D	258	0.478	83.939	87.943	1.00	28.07	C
ATOM	11886	C	PHE	D	258	0.459	85.170	88.822	1.00	28.20	C
ATOM	11887	O	PHE	D	258	-0.528	85.395	89.530	1.00	27.99	O
ATOM	11888	CB	PHE	D	258	0.284	84.346	86.476	1.00	29.11	C
ATOM	11889	CG	PHE	D	258	0.402	83.193	85.494	1.00	30.14	C
ATOM	11890	CD1	PHE	D	258	1.258	82.122	85.753	1.00	30.77	C
ATOM	11891	CD2	PHE	D	258	-0.331	83.189	84.306	1.00	30.01	C
ATOM	11892	CE1	PHE	D	258	1.386	81.051	84.832	1.00	30.13	C
ATOM	11893	CE2	PHE	D	258	-0.203	82.118	83.377	1.00	31.15	C
ATOM	11894	CZ	PHE	D	258	0.651	81.061	83.645	1.00	29.15	C
ATOM	11895	N	TYR	D	259	1.558	85.925	88.781	1.00	27.43	N
ATOM	11896	CA	TYR	D	259	1.725	87.169	89.527	1.00	26.95	C
ATOM	11897	C	TYR	D	259	1.770	88.353	88.571	1.00	27.35	C
ATOM	11898	O	TYR	D	259	2.504	88.324	87.571	1.00	26.87	O
ATOM	11899	CB	TYR	D	259	3.045	87.199	90.323	1.00	28.54	C
ATOM	11900	CG	TYR	D	259	3.131	86.235	91.501	1.00	27.83	C
ATOM	11901	CD1	TYR	D	259	3.332	84.872	91.290	1.00	28.50	C
ATOM	11902	CD2	TYR	D	259	3.005	86.690	92.825	1.00	27.32	C
ATOM	11903	CE1	TYR	D	259	3.410	83.973	92.371	1.00	27.96	C
ATOM	11904	CE2	TYR	D	259	3.075	85.802	93.916	1.00	27.71	C
ATOM	11905	CZ	TYR	D	259	3.282	84.441	93.673	1.00	27.76	C
ATOM	11906	OH	TYR	D	259	3.405	83.543	94.710	1.00	29.04	O
ATOM	11907	N	ARG	D	260	1.008	89.405	88.876	1.00	27.64	N
ATOM	11908	CA	ARG	D	260	1.040	90.606	88.035	1.00	27.68	C
ATOM	11909	C	ARG	D	260	2.325	91.329	88.402	1.00	27.24	C
ATOM	11910	O	ARG	D	260	2.695	91.340	89.557	1.00	28.25	O
ATOM	11911	CB	ARG	D	260	-0.140	91.530	88.335	1.00	29.60	C
ATOM	11912	CG	ARG	D	260	-1.522	90.993	87.946	1.00	30.15	C
ATOM	11913	CD	ARG	D	260	-1.825	91.170	86.451	1.00	35.61	C



ATOM	11914	NE	ARG	D	260	-3.114	90.550	86.086	1.00	36.63	N
ATOM	11915	CZ	ARG	D	260	-3.561	90.426	84.839	1.00	35.94	C
ATOM	11916	NH1	ARG	D	260	-2.834	90.879	83.826	1.00	37.12	N
ATOM	11917	NH2	ARG	D	260	-4.726	89.833	84.601	1.00	35.91	N
ATOM	11918	N	THR	D	261	2.969	91.953	87.420	1.00	27.61	N
ATOM	11919	CA	THR	D	261	4.213	92.683	87.608	1.00	28.59	C
ATOM	11920	C	THR	D	261	4.166	93.982	86.791	1.00	29.45	C
ATOM	11921	O	THR	D	261	3.405	94.087	85.807	1.00	30.58	O
ATOM	11922	CB	THR	D	261	5.439	91.815	87.156	1.00	28.51	C
ATOM	11923	OG1	THR	D	261	6.669	92.519	87.401	1.00	29.12	O
ATOM	11924	CG2	THR	D	261	5.334	91.495	85.681	1.00	24.90	C
ATOM	11925	N	LYS	D	262	4.988	94.957	87.183	1.00	30.08	N
ATOM	11926	CA	LYS	D	262	5.037	96.250	86.511	1.00	32.02	C
ATOM	11927	C	LYS	D	262	6.058	96.206	85.416	1.00	31.63	C
ATOM	11928	O	LYS	D	262	7.249	96.032	85.667	1.00	33.62	O
ATOM	11929	CB	LYS	D	262	5.378	97.359	87.523	1.00	34.06	C
ATOM	11930	CG	LYS	D	262	4.457	97.340	88.765	1.00	37.57	C
ATOM	11931	CD	LYS	D	262	4.492	98.666	89.550	1.00	39.98	C
ATOM	11932	CE	LYS	D	262	3.797	98.561	90.930	1.00	41.79	C
ATOM	11933	NZ	LYS	D	262	2.295	98.654	90.917	1.00	41.34	N
ATOM	11934	N	ASN	D	263	5.570	96.356	84.191	1.00	32.72	N
ATOM	11935	CA	ASN	D	263	6.374	96.309	82.965	1.00	32.82	C
ATOM	11936	C	ASN	D	263	6.980	97.655	82.613	1.00	33.35	C
ATOM	11937	O	ASN	D	263	6.625	98.664	83.205	1.00	35.75	O
ATOM	11938	CB	ASN	D	263	5.484	95.881	81.800	1.00	33.67	C
ATOM	11939	CG	ASN	D	263	4.339	96.874	81.542	1.00	35.06	C
ATOM	11940	OD1	ASN	D	263	3.460	97.069	82.403	1.00	35.09	O
ATOM	11941	ND2	ASN	D	263	4.347	97.505	80.358	1.00	35.24	N
ATOM	11942	N	GLY	D	264	7.857	97.676	81.621	1.00	32.53	N
ATOM	11943	CA	GLY	D	264	8.469	98.928	81.216	1.00	31.26	C
ATOM	11944	C	GLY	D	264	9.943	98.738	80.968	1.00	31.13	C
ATOM	11945	O	GLY	D	264	10.416	97.611	80.989	1.00	31.64	O
ATOM	11946	N	ILE	D	265	10.681	99.824	80.742	1.00	30.28	N
ATOM	11947	CA	ILE	D	265	12.099	99.697	80.491	1.00	30.31	C
ATOM	11948	C	ILE	D	265	12.926	99.428	81.758	1.00	30.19	C
ATOM	11949	O	ILE	D	265	14.048	98.921	81.681	1.00	31.08	O
ATOM	11950	CB	ILE	D	265	12.644	100.947	79.773	1.00	31.39	C
ATOM	11951	CG1	ILE	D	265	14.094	100.694	79.359	1.00	31.29	C
ATOM	11952	CG2	ILE	D	265	12.599	102.150	80.723	1.00	31.10	C
ATOM	11953	CD1	ILE	D	265	14.555	101.497	78.195	1.00	33.95	C
ATOM	11954	N	GLU	D	266	12.371	99.756	82.923	1.00	30.77	N
ATOM	11955	CA	GLU	D	266	13.075	99.553	84.185	1.00	31.41	C
ATOM	11956	C	GLU	D	266	13.358	98.058	84.391	1.00	29.87	C
ATOM	11957	O	GLU	D	266	14.507	97.668	84.563	1.00	27.83	O
ATOM	11958	CB	GLU	D	266	12.255	100.140	85.348	1.00	35.84	C
ATOM	11959	CG	GLU	D	266	13.055	100.422	86.626	1.00	41.18	C
ATOM	11960	CD	GLU	D	266	12.290	101.291	87.657	1.00	43.72	C
ATOM	11961	OE1	GLU	D	266	11.130	100.961	88.005	1.00	45.56	O
ATOM	11962	OE2	GLU	D	266	12.860	102.306	88.126	1.00	44.99	O
ATOM	11963	N	PRO	D	267	12.314	97.207	84.392	1.00	28.81	N
ATOM	11964	CA	PRO	D	267	12.611	95.775	84.573	1.00	28.57	C
ATOM	11965	C	PRO	D	267	13.561	95.240	83.474	1.00	27.38	C
ATOM	11966	O	PRO	D	267	14.367	94.326	83.746	1.00	29.71	O
ATOM	11967	CB	PRO	D	267	11.237	95.101	84.481	1.00	27.16	C
ATOM	11968	CG	PRO	D	267	10.241	96.168	84.773	1.00	28.19	C
ATOM	11969	CD	PRO	D	267	10.872	97.429	84.179	1.00	27.45	C
ATOM	11970	N	CYS	D	268	13.472	95.776	82.245	1.00	27.41	N
ATOM	11971	CA	CYS	D	268	14.327	95.290	81.152	1.00	26.97	C
ATOM	11972	C	CYS	D	268	15.773	95.660	81.416	1.00	27.69	C
ATOM	11973	O	CYS	D	268	16.691	94.879	81.150	1.00	27.93	O
ATOM	11974	CB	CYS	D	268	13.893	95.831	79.754	1.00	27.21	C
ATOM	11975	SG	CYS	D	268	12.197	95.392	79.164	1.00	32.82	S
ATOM	11976	N	ILE	D	269	16.005	96.867	81.925	1.00	27.49	N
ATOM	11977	CA	ILE	D	269	17.368	97.283	82.236	1.00	27.73	C
ATOM	11978	C	ILE	D	269	17.957	96.442	83.364	1.00	27.01	C
ATOM	11979	O	ILE	D	269	19.106	96.018	83.289	1.00	28.87	O
ATOM	11980	CB	ILE	D	269	17.414	98.793	82.625	1.00	27.88	C
ATOM	11981	CG1	ILE	D	269	17.399	99.650	81.340	1.00	28.14	C
ATOM	11982	CG2	ILE	D	269	18.663	99.102	83.428	1.00	29.06	C
ATOM	11983	CD1	ILE	D	269	16.840	101.072	81.574	1.00	30.10	C
ATOM	11984	N	ALA	D	270	17.182	96.197	84.414	1.00	27.50	N
ATOM	11985	CA	ALA	D	270	17.681	95.379	85.540	1.00	26.61	C
ATOM	11986	C	ALA	D	270	17.975	93.956	85.054	1.00	26.07	C
ATOM	11987	O	ALA	D	270	19.025	93.364	85.364	1.00	25.81	O
ATOM	11988	CB	ALA	D	270	16.626	95.343	86.689	1.00	26.25	C
ATOM	11989	N	ARG	D	271	17.055	93.408	84.273	1.00	24.76	N
ATOM	11990	CA	ARG	D	271	17.274	92.056	83.785	1.00	24.52	C
ATOM	11991	C	ARG	D	271	18.484	91.999	82.875	1.00	24.63	C
ATOM	11992	O	ARG	D	271	19.310	91.063	82.923	1.00	25.31	O
ATOM	11993	CB	ARG	D	271	16.009	91.552	83.096	1.00	24.14	C



ATOM	11994	CG	ARG	D	271	15.064	90.970	84.102	1.00	24.72	C
ATOM	11995	CD	ARG	D	271	13.773	90.547	83.491	1.00	25.13	C
ATOM	11996	NE	ARG	D	271	12.868	90.036	84.503	1.00	24.85	N
ATOM	11997	CZ	ARG	D	271	12.473	88.767	84.584	1.00	25.86	C
ATOM	11998	NH1	ARG	D	271	12.909	87.875	83.698	1.00	25.68	N
ATOM	11999	NH2	ARG	D	271	11.636	88.402	85.537	1.00	26.84	N
ATOM	12000	N	ALA	D	272	18.612	93.026	82.045	1.00	24.97	N
ATOM	12001	CA	ALA	D	272	19.711	93.078	81.119	1.00	25.47	C
ATOM	12002	C	ALA	D	272	20.996	93.042	81.918	1.00	25.15	C
ATOM	12003	O	ALA	D	272	21.919	92.327	81.568	1.00	25.22	O
ATOM	12004	CB	ALA	D	272	19.620	94.357	80.236	1.00	24.01	C
ATOM	12005	N	LYS	D	273	21.066	93.786	83.017	1.00	25.40	N
ATOM	12006	CA	LYS	D	273	22.310	93.764	83.782	1.00	26.10	C
ATOM	12007	C	LYS	D	273	22.568	92.420	84.413	1.00	24.96	C
ATOM	12008	O	LYS	D	273	23.719	91.986	84.526	1.00	26.61	O
ATOM	12009	CB	LYS	D	273	22.317	94.842	84.884	1.00	27.26	C
ATOM	12010	CG	LYS	D	273	22.344	96.255	84.348	1.00	29.69	C
ATOM	12011	CD	LYS	D	273	22.330	97.263	85.484	1.00	31.14	C
ATOM	12012	CE	LYS	D	273	22.137	98.663	84.919	1.00	33.95	C
ATOM	12013	NZ	LYS	D	273	22.193	99.708	85.977	1.00	34.65	N
ATOM	12014	N	ALA	D	274	21.505	91.745	84.843	1.00	24.87	N
ATOM	12015	CA	ALA	D	274	21.710	90.443	85.478	1.00	24.87	C
ATOM	12016	C	ALA	D	274	22.196	89.388	84.466	1.00	23.32	C
ATOM	12017	O	ALA	D	274	23.008	88.513	84.805	1.00	20.46	O
ATOM	12018	CB	ALA	D	274	20.412	89.960	86.165	1.00	24.54	C
ATOM	12019	N	TYR	D	275	21.701	89.492	83.228	1.00	24.20	N
ATOM	12020	CA	TYR	D	275	22.069	88.533	82.185	1.00	23.44	C
ATOM	12021	C	TYR	D	275	23.422	88.838	81.578	1.00	24.96	C
ATOM	12022	O	TYR	D	275	24.107	87.942	81.085	1.00	24.45	O
ATOM	12023	CB	TYR	D	275	21.034	88.537	81.047	1.00	22.53	C
ATOM	12024	CG	TYR	D	275	19.584	88.340	81.447	1.00	20.59	C
ATOM	12025	CD1	TYR	D	275	19.241	87.618	82.585	1.00	20.90	C
ATOM	12026	CD2	TYR	D	275	18.552	88.818	80.645	1.00	20.04	C
ATOM	12027	CE1	TYR	D	275	17.923	87.375	82.918	1.00	18.82	C
ATOM	12028	CE2	TYR	D	275	17.203	88.569	80.974	1.00	20.09	C
ATOM	12029	CZ	TYR	D	275	16.908	87.852	82.110	1.00	19.39	C
ATOM	12030	OH	TYR	D	275	15.604	87.633	82.454	1.00	19.37	O
ATOM	12031	N	ALA	D	276	23.839	90.099	81.644	1.00	25.17	N
ATOM	12032	CA	ALA	D	276	25.085	90.496	80.996	1.00	25.99	C
ATOM	12033	C	ALA	D	276	26.298	89.571	81.129	1.00	25.83	C
ATOM	12034	O	ALA	D	276	26.954	89.281	80.139	1.00	29.57	O
ATOM	12035	CB	ALA	D	276	25.440	91.957	81.397	1.00	25.70	C
ATOM	12036	N	PRO	D	277	26.622	89.079	82.339	1.00	26.59	N
ATOM	12037	CA	PRO	D	277	27.781	88.184	82.480	1.00	26.11	C
ATOM	12038	C	PRO	D	277	27.535	86.858	81.768	1.00	27.11	C
ATOM	12039	O	PRO	D	277	28.452	86.057	81.596	1.00	26.64	O
ATOM	12040	CB	PRO	D	277	27.852	87.925	83.981	1.00	27.58	C
ATOM	12041	CG	PRO	D	277	27.198	89.103	84.570	1.00	27.25	C
ATOM	12042	CD	PRO	D	277	26.056	89.409	83.656	1.00	26.75	C
ATOM	12043	N	PHE	D	278	26.282	86.611	81.391	1.00	25.70	N
ATOM	12044	CA	PHE	D	278	25.956	85.330	80.759	1.00	25.55	C
ATOM	12045	C	PHE	D	278	25.556	85.448	79.284	1.00	26.61	C
ATOM	12046	O	PHE	D	278	25.125	84.449	78.669	1.00	26.38	O
ATOM	12047	CB	PHE	D	278	24.808	84.681	81.554	1.00	23.99	C
ATOM	12048	CG	PHE	D	278	25.129	84.456	83.000	1.00	23.64	C
ATOM	12049	CD1	PHE	D	278	25.953	83.415	83.387	1.00	23.12	C
ATOM	12050	CD2	PHE	D	278	24.636	85.311	83.975	1.00	24.85	C
ATOM	12051	CE1	PHE	D	278	26.292	83.218	84.735	1.00	24.42	C
ATOM	12052	CE2	PHE	D	278	24.967	85.127	85.323	1.00	23.93	C
ATOM	12053	CZ	PHE	D	278	25.794	84.080	85.703	1.00	25.56	C
ATOM	12054	N	ALA	D	279	25.708	86.650	78.715	1.00	27.50	N
ATOM	12055	CA	ALA	D	279	25.303	86.913	77.340	1.00	26.73	C
ATOM	12056	C	ALA	D	279	26.292	87.681	76.453	1.00	28.35	C
ATOM	12057	O	ALA	D	279	26.802	88.746	76.841	1.00	27.64	O
ATOM	12058	CB	ALA	D	279	23.971	87.664	77.351	1.00	27.33	C
ATOM	12059	N	ASP	D	280	26.541	87.155	75.255	1.00	27.20	N
ATOM	12060	CA	ASP	D	280	27.431	87.837	74.303	1.00	27.95	C
ATOM	12061	C	ASP	D	280	26.714	89.029	73.694	1.00	27.88	C
ATOM	12062	O	ASP	D	280	27.352	89.961	73.184	1.00	30.46	O
ATOM	12063	CB	ASP	D	280	27.897	86.898	73.184	1.00	26.79	C
ATOM	12064	CG	ASP	D	280	28.723	85.738	73.694	1.00	27.31	C
ATOM	12065	OD1	ASP	D	280	29.572	85.953	74.593	1.00	24.54	O
ATOM	12066	OD2	ASP	D	280	28.545	84.585	73.191	1.00	25.38	O
ATOM	12067	N	LEU	D	281	25.387	89.004	73.715	1.00	27.91	N
ATOM	12068	CA	LEU	D	281	24.583	90.096	73.201	1.00	27.21	C
ATOM	12069	C	LEU	D	281	23.304	90.117	73.989	1.00	28.10	C
ATOM	12070	O	LEU	D	281	22.829	89.052	74.421	1.00	27.72	O
ATOM	12071	CB	LEU	D	281	24.255	89.927	71.707	1.00	29.37	C
ATOM	12072	CG	LEU	D	281	25.342	90.234	70.676	1.00	29.46	C
ATOM	12073	CD1	LEU	D	281	26.061	88.959	70.326	1.00	30.06	C



ATOM	12074	CD2	LEU	D	281	24.735	90.853	69.436	1.00	31.55	C
ATOM	12075	N	ILE	D	282	22.756	91.317	74.200	1.00	26.91	N
ATOM	12076	CA	ILE	D	282	21.509	91.471	74.931	1.00	26.32	C
ATOM	12077	C	ILE	D	282	20.490	92.203	74.083	1.00	27.41	C
ATOM	12078	O	ILE	D	282	20.818	93.145	73.354	1.00	27.71	O
ATOM	12079	CB	ILE	D	282	21.738	92.228	76.254	1.00	27.08	C
ATOM	12080	CG1	ILE	D	282	22.820	91.517	77.053	1.00	28.48	C
ATOM	12081	CG2	ILE	D	282	20.436	92.314	77.048	1.00	27.35	C
ATOM	12082	CD1	ILE	D	282	23.147	92.180	78.373	1.00	30.31	C
ATOM	12083	N	TRP	D	283	19.230	91.795	74.202	1.00	27.36	N
ATOM	12084	CA	TRP	D	283	18.178	92.370	73.397	1.00	27.66	C
ATOM	12085	C	TRP	D	283	16.880	92.488	74.179	1.00	27.31	C
ATOM	12086	O	TRP	D	283	16.499	91.564	74.908	1.00	27.31	O
ATOM	12087	CB	TRP	D	283	18.040	91.487	72.127	1.00	27.11	C
ATOM	12088	CG	TRP	D	283	16.685	91.349	71.480	1.00	27.97	C
ATOM	12089	CD1	TRP	D	283	15.676	92.281	71.417	1.00	27.65	C
ATOM	12090	CD2	TRP	D	283	16.213	90.204	70.752	1.00	26.23	C
ATOM	12091	NE1	TRP	D	283	14.611	91.781	70.698	1.00	27.74	N
ATOM	12092	CE2	TRP	D	283	14.916	90.510	70.281	1.00	26.27	C
ATOM	12093	CE3	TRP	D	283	16.771	88.947	70.452	1.00	26.63	C
ATOM	12094	CZ2	TRP	D	283	14.160	89.605	69.524	1.00	26.66	C
ATOM	12095	CZ3	TRP	D	283	16.017	88.043	69.691	1.00	26.11	C
ATOM	12096	CH2	TRP	D	283	14.726	88.382	69.238	1.00	25.98	C
ATOM	12097	N	MET	D	284	16.247	93.658	74.100	1.00	27.57	N
ATOM	12098	CA	MET	D	284	14.960	93.856	74.758	1.00	28.65	C
ATOM	12099	C	MET	D	284	13.918	94.136	73.686	1.00	29.35	C
ATOM	12100	O	MET	D	284	14.149	94.942	72.777	1.00	31.39	O
ATOM	12101	CB	MET	D	284	14.992	95.019	75.778	1.00	31.08	C
ATOM	12102	CG	MET	D	284	14.979	96.409	75.196	1.00	30.33	C
ATOM	12103	SD	MET	D	284	14.613	97.758	76.405	1.00	34.56	S
ATOM	12104	CE	MET	D	284	12.873	97.810	76.355	1.00	30.21	C
ATOM	12105	N	GLU	D	285	12.794	93.439	73.749	1.00	28.42	N
ATOM	12106	CA	GLU	D	285	11.729	93.660	72.786	1.00	30.01	C
ATOM	12107	C	GLU	D	285	11.053	94.960	73.183	1.00	30.31	C
ATOM	12108	O	GLU	D	285	10.969	95.269	74.371	1.00	30.44	O
ATOM	12109	CB	GLU	D	285	10.715	92.524	72.839	1.00	29.61	C
ATOM	12110	CG	GLU	D	285	11.192	91.252	72.178	1.00	30.13	C
ATOM	12111	CD	GLU	D	285	11.030	91.304	70.674	1.00	31.54	C
ATOM	12112	OE1	GLU	D	285	11.748	92.094	70.012	1.00	29.96	O
ATOM	12113	OE2	GLU	D	285	10.162	90.551	70.166	1.00	34.33	O
ATOM	12114	N	THR	D	286	10.571	95.704	72.191	1.00	31.49	N
ATOM	12115	CA	THR	D	286	9.904	96.984	72.437	1.00	32.35	C
ATOM	12116	C	THR	D	286	8.537	97.011	71.750	1.00	32.62	C
ATOM	12117	O	THR	D	286	8.272	96.218	70.832	1.00	30.05	O
ATOM	12118	CB	THR	D	286	10.723	98.173	71.870	1.00	33.77	C
ATOM	12119	OG1	THR	D	286	10.474	98.262	70.463	1.00	36.44	O
ATOM	12120	CG2	THR	D	286	12.227	97.977	72.070	1.00	31.57	C
ATOM	12121	N	GLY	D	287	7.693	97.955	72.179	1.00	32.59	N
ATOM	12122	CA	GLY	D	287	6.343	98.081	71.631	1.00	33.19	C
ATOM	12123	C	GLY	D	287	6.224	98.935	70.373	1.00	33.32	C
ATOM	12124	O	GLY	D	287	5.229	98.853	69.652	1.00	33.32	O
ATOM	12125	N	THR	D	288	7.242	99.749	70.112	1.00	33.19	N
ATOM	12126	CA	THR	D	288	7.257	100.620	68.938	1.00	32.91	C
ATOM	12127	C	THR	D	288	8.728	100.788	68.588	1.00	32.28	C
ATOM	12128	O	THR	D	288	9.581	100.454	69.407	1.00	33.32	O
ATOM	12129	CB	THR	D	288	6.676	102.020	69.265	1.00	32.99	C
ATOM	12130	OG1	THR	D	288	7.575	102.684	70.152	1.00	33.51	O
ATOM	12131	CG2	THR	D	288	5.302	101.917	69.951	1.00	33.88	C
ATOM	12132	N	PRO	D	289	9.046	101.275	67.364	1.00	32.80	N
ATOM	12133	CA	PRO	D	289	10.436	101.483	66.940	1.00	33.45	C
ATOM	12134	C	PRO	D	289	10.819	102.917	67.364	1.00	35.14	C
ATOM	12135	O	PRO	D	289	10.600	103.885	66.633	1.00	35.63	O
ATOM	12136	CB	PRO	D	289	10.360	101.288	65.423	1.00	33.16	C
ATOM	12137	CG	PRO	D	289	9.035	101.898	65.089	1.00	32.08	C
ATOM	12138	CD	PRO	D	289	8.116	101.448	66.226	1.00	32.56	C
ATOM	12139	N	ASP	D	290	11.386	103.034	68.558	1.00	36.41	N
ATOM	12140	CA	ASP	D	290	11.716	104.338	69.140	1.00	37.38	C
ATOM	12141	C	ASP	D	290	13.179	104.532	69.446	1.00	36.36	C
ATOM	12142	O	ASP	D	290	13.713	103.909	70.371	1.00	37.07	O
ATOM	12143	CB	ASP	D	290	10.913	104.510	70.436	1.00	40.43	C
ATOM	12144	CG	ASP	D	290	11.217	105.820	71.150	1.00	42.06	C
ATOM	12145	OD1	ASP	D	290	12.388	106.262	71.148	1.00	44.59	O
ATOM	12146	OD2	ASP	D	290	10.280	106.391	71.725	1.00	43.11	O
ATOM	12147	N	LEU	D	291	13.832	105.416	68.702	1.00	35.89	N
ATOM	12148	CA	LEU	D	291	15.237	105.650	68.941	1.00	35.71	C
ATOM	12149	C	LEU	D	291	15.531	106.177	70.355	1.00	35.93	C
ATOM	12150	O	LEU	D	291	16.569	105.858	70.927	1.00	34.49	O
ATOM	12151	CB	LEU	D	291	15.806	106.630	67.907	1.00	37.36	C
ATOM	12152	CG	LEU	D	291	16.033	106.114	66.488	1.00	37.59	C
ATOM	12153	CD1	LEU	D	291	16.584	107.235	65.655	1.00	37.34	C



ATOM	12154	CD2	LEU	D	291	17.001	104.936	66.489	1.00	37.02	C
ATOM	12155	N	GLU	D	292	14.639	106.979	70.923	1.00	36.57	N
ATOM	12156	CA	GLU	D	292	14.914	107.509	72.274	1.00	39.43	C
ATOM	12157	C	GLU	D	292	14.965	106.354	73.276	1.00	38.04	C
ATOM	12158	O	GLU	D	292	15.961	106.164	73.990	1.00	38.34	O
ATOM	12159	CB	GLU	D	292	13.835	108.512	72.719	1.00	41.67	C
ATOM	12160	CG	GLU	D	292	14.400	109.833	73.304	1.00	46.91	C
ATOM	12161	CD	GLU	D	292	15.418	109.635	74.443	1.00	48.65	C
ATOM	12162	OE1	GLU	D	292	15.007	109.393	75.607	1.00	48.98	O
ATOM	12163	OE2	GLU	D	292	16.642	109.720	74.166	1.00	51.01	O
ATOM	12164	N	ALA	D	293	13.870	105.602	73.316	1.00	37.33	N
ATOM	12165	CA	ALA	D	293	13.739	104.445	74.189	1.00	36.03	C
ATOM	12166	C	ALA	D	293	14.946	103.528	74.030	1.00	35.32	C
ATOM	12167	O	ALA	D	293	15.511	103.028	75.012	1.00	34.90	O
ATOM	12168	CB	ALA	D	293	12.458	103.707	73.845	1.00	36.40	C
ATOM	12169	N	ALA	D	294	15.344	103.308	72.785	1.00	35.37	N
ATOM	12170	CA	ALA	D	294	16.495	102.470	72.508	1.00	35.34	C
ATOM	12171	C	ALA	D	294	17.758	103.039	73.147	1.00	35.83	C
ATOM	12172	O	ALA	D	294	18.561	102.295	73.705	1.00	35.84	O
ATOM	12173	CB	ALA	D	294	16.690	102.329	71.009	1.00	35.56	C
ATOM	12174	N	ARG	D	295	17.957	104.356	73.065	1.00	35.90	N
ATOM	12175	CA	ARG	D	295	19.166	104.953	73.657	1.00	34.91	C
ATOM	12176	C	ARG	D	295	19.115	104.855	75.184	1.00	33.18	C
ATOM	12177	O	ARG	D	295	20.121	104.643	75.853	1.00	30.64	O
ATOM	12178	CB	ARG	D	295	19.305	106.432	73.266	1.00	36.76	C
ATOM	12179	CG	ARG	D	295	20.520	107.122	73.908	1.00	39.44	C
ATOM	12180	CD	ARG	D	295	20.508	108.648	73.679	1.00	42.23	C
ATOM	12181	NE	ARG	D	295	20.524	108.986	72.252	1.00	43.98	N
ATOM	12182	CZ	ARG	D	295	21.593	108.861	71.454	1.00	45.27	C
ATOM	12183	NH1	ARG	D	295	22.758	108.420	71.937	1.00	45.10	N
ATOM	12184	NH2	ARG	D	295	21.483	109.135	70.156	1.00	44.93	N
ATOM	12185	N	GLN	D	296	17.912	105.046	75.698	1.00	34.02	N
ATOM	12186	CA	GLN	D	296	17.622	104.984	77.107	1.00	35.51	C
ATOM	12187	C	GLN	D	296	18.100	103.606	77.621	1.00	35.21	C
ATOM	12188	O	GLN	D	296	18.860	103.516	78.597	1.00	35.58	O
ATOM	12189	CB	GLN	D	296	16.104	105.227	77.246	1.00	37.58	C
ATOM	12190	CG	GLN	D	296	15.393	104.606	78.399	1.00	41.46	C
ATOM	12191	CD	GLN	D	296	15.778	105.188	79.723	1.00	44.60	C
ATOM	12192	OE1	GLN	D	296	16.971	105.262	80.068	1.00	46.09	O
ATOM	12193	NE2	GLN	D	296	14.774	105.595	80.499	1.00	44.65	N
ATOM	12194	N	PHE	D	297	17.710	102.543	76.924	1.00	33.61	N
ATOM	12195	CA	PHE	D	297	18.104	101.186	77.322	1.00	33.31	C
ATOM	12196	C	PHE	D	297	19.607	100.952	77.204	1.00	31.98	C
ATOM	12197	O	PHE	D	297	20.229	100.401	78.115	1.00	31.39	O
ATOM	12198	CB	PHE	D	297	17.372	100.143	76.460	1.00	33.57	C
ATOM	12199	CG	PHE	D	297	17.882	98.731	76.650	1.00	33.25	C
ATOM	12200	CD1	PHE	D	297	17.505	97.981	77.767	1.00	33.05	C
ATOM	12201	CD2	PHE	D	297	18.764	98.169	75.729	1.00	33.25	C
ATOM	12202	CE1	PHE	D	297	18.001	96.698	77.963	1.00	32.31	C
ATOM	12203	CE2	PHE	D	297	19.262	96.893	75.914	1.00	32.27	C
ATOM	12204	CZ	PHE	D	297	18.881	96.152	77.037	1.00	33.27	C
ATOM	12205	N	SER	D	298	20.187	101.373	76.085	1.00	32.87	N
ATOM	12206	CA	SER	D	298	21.620	101.189	75.819	1.00	33.92	C
ATOM	12207	C	SER	D	298	22.568	101.872	76.805	1.00	35.24	C
ATOM	12208	O	SER	D	298	23.556	101.285	77.250	1.00	35.80	O
ATOM	12209	CB	SER	D	298	21.951	101.701	74.416	1.00	34.72	C
ATOM	12210	OG	SER	D	298	23.350	101.860	74.280	1.00	36.72	O
ATOM	12211	N	GLU	D	299	22.290	103.133	77.109	1.00	36.48	N
ATOM	12212	CA	GLU	D	299	23.145	103.884	78.031	1.00	37.34	C
ATOM	12213	C	GLU	D	299	23.156	103.208	79.408	1.00	36.36	C
ATOM	12214	O	GLU	D	299	24.222	102.925	79.993	1.00	35.67	O
ATOM	12215	CB	GLU	D	299	22.649	105.338	78.106	1.00	39.62	C
ATOM	12216	CG	GLU	D	299	22.634	106.009	76.705	1.00	43.69	C
ATOM	12217	CD	GLU	D	299	22.471	107.526	76.726	1.00	45.08	C
ATOM	12218	OE1	GLU	D	299	21.365	108.014	77.054	1.00	46.12	O
ATOM	12219	OE2	GLU	D	299	23.461	108.224	76.405	1.00	46.40	O
ATOM	12220	N	ALA	D	300	21.955	102.918	79.890	1.00	35.29	N
ATOM	12221	CA	ALA	D	300	21.786	102.268	81.178	1.00	34.49	C
ATOM	12222	C	ALA	D	300	22.677	101.053	81.266	1.00	34.77	C
ATOM	12223	O	ALA	D	300	23.497	100.921	82.180	1.00	34.76	O
ATOM	12224	CB	ALA	D	300	20.318	101.863	81.370	1.00	34.02	C
ATOM	12225	N	VAL	D	301	22.545	100.167	80.286	1.00	34.55	N
ATOM	12226	CA	VAL	D	301	23.317	98.946	80.293	1.00	33.25	C
ATOM	12227	C	VAL	D	301	24.799	99.098	80.133	1.00	34.06	C
ATOM	12228	O	VAL	D	301	25.562	98.422	80.830	1.00	35.06	O
ATOM	12229	CB	VAL	D	301	22.815	97.986	79.212	1.00	32.65	C
ATOM	12230	CG1	VAL	D	301	23.643	96.701	79.230	1.00	30.33	C
ATOM	12231	CG2	VAL	D	301	21.327	97.752	79.420	1.00	31.79	C
ATOM	12232	N	LYS	D	302	25.237	99.947	79.211	1.00	35.16	N
ATOM	12233	CA	LYS	D	302	26.687	100.101	79.029	1.00	36.96	C



ATOM	12234	C	LYS	D	302	27.286	100.888	80.192	1.00	38.53	C
ATOM	12235	O	LYS	D	302	28.508	100.870	80.412	1.00	38.55	O
ATOM	12236	CB	LYS	D	302	26.999	100.780	77.697	1.00	37.12	C
ATOM	12237	CG	LYS	D	302	26.707	99.880	76.494	1.00	39.22	C
ATOM	12238	CD	LYS	D	302	27.054	100.553	75.178	1.00	39.50	C
ATOM	12239	CE	LYS	D	302	27.273	99.528	74.100	1.00	39.41	C
ATOM	12240	NZ	LYS	D	302	28.409	98.621	74.450	1.00	39.97	N
ATOM	12241	N	ALA	D	303	26.405	101.558	80.939	1.00	39.35	N
ATOM	12242	CA	ALA	D	303	26.812	102.328	82.105	1.00	40.82	C
ATOM	12243	C	ALA	D	303	27.481	101.388	83.087	1.00	41.53	C
ATOM	12244	O	ALA	D	303	28.306	101.811	83.897	1.00	42.97	O
ATOM	12245	CB	ALA	D	303	25.601	102.965	82.766	1.00	40.59	C
ATOM	12246	N	GLU	D	304	27.120	100.109	83.021	1.00	41.20	N
ATOM	12247	CA	GLU	D	304	27.689	99.126	83.926	1.00	41.43	C
ATOM	12248	C	GLU	D	304	28.529	98.087	83.188	1.00	40.35	C
ATOM	12249	O	GLU	D	304	29.464	97.519	83.759	1.00	40.84	O
ATOM	12250	CB	GLU	D	304	26.569	98.459	84.725	1.00	43.20	C
ATOM	12251	CG	GLU	D	304	27.058	97.682	85.925	1.00	47.14	C
ATOM	12252	CD	GLU	D	304	25.991	97.527	86.997	1.00	49.22	C
ATOM	12253	OE1	GLU	D	304	25.425	98.560	87.419	1.00	49.93	O
ATOM	12254	OE2	GLU	D	304	25.727	96.376	87.422	1.00	50.78	O
ATOM	12255	N	TYR	D	305	28.200	97.847	81.917	1.00	39.64	N
ATOM	12256	CA	TYR	D	305	28.944	96.888	81.087	1.00	38.37	C
ATOM	12257	C	TYR	D	305	29.306	97.561	79.759	1.00	38.68	C
ATOM	12258	O	TYR	D	305	28.625	97.357	78.749	1.00	37.74	O
ATOM	12259	CB	TYR	D	305	28.092	95.624	80.851	1.00	36.49	C
ATOM	12260	CG	TYR	D	305	27.947	94.788	82.106	1.00	33.42	C
ATOM	12261	CD1	TYR	D	305	28.953	93.907	82.495	1.00	33.67	C
ATOM	12262	CD2	TYR	D	305	26.843	94.939	82.943	1.00	33.24	C
ATOM	12263	CE1	TYR	D	305	28.865	93.200	83.684	1.00	33.69	C
ATOM	12264	CE2	TYR	D	305	26.744	94.239	84.149	1.00	31.70	C
ATOM	12265	CZ	TYR	D	305	27.758	93.370	84.509	1.00	33.47	C
ATOM	12266	OH	TYR	D	305	27.671	92.641	85.684	1.00	34.38	O
ATOM	12267	N	PRO	D	306	30.393	98.371	79.749	1.00	38.49	N
ATOM	12268	CA	PRO	D	306	30.886	99.111	78.576	1.00	38.58	C
ATOM	12269	C	PRO	D	306	31.129	98.324	77.283	1.00	38.02	C
ATOM	12270	O	PRO	D	306	30.859	98.826	76.190	1.00	38.75	O
ATOM	12271	CB	PRO	D	306	32.172	99.763	79.097	1.00	38.42	C
ATOM	12272	CG	PRO	D	306	31.884	99.945	80.543	1.00	38.32	C
ATOM	12273	CD	PRO	D	306	31.293	98.599	80.891	1.00	38.95	C
ATOM	12274	N	ASP	D	307	31.659	97.111	77.397	1.00	37.62	N
ATOM	12275	CA	ASP	D	307	31.926	96.292	76.212	1.00	37.30	C
ATOM	12276	C	ASP	D	307	30.730	95.418	75.764	1.00	36.04	C
ATOM	12277	O	ASP	D	307	30.819	94.713	74.762	1.00	36.86	O
ATOM	12278	CB	ASP	D	307	33.124	95.366	76.466	1.00	38.10	C
ATOM	12279	CG	ASP	D	307	34.417	96.113	76.708	1.00	40.21	C
ATOM	12280	OD1	ASP	D	307	34.670	97.089	75.975	1.00	39.64	O
ATOM	12281	OD2	ASP	D	307	35.193	95.703	77.614	1.00	41.69	O
ATOM	12282	N	GLN	D	308	29.620	95.474	76.487	1.00	34.94	N
ATOM	12283	CA	GLN	D	308	28.448	94.646	76.155	1.00	34.18	C
ATOM	12284	C	GLN	D	308	27.751	95.026	74.848	1.00	33.29	C
ATOM	12285	O	GLN	D	308	27.231	96.136	74.708	1.00	33.87	O
ATOM	12286	CB	GLN	D	308	27.427	94.679	77.309	1.00	33.00	C
ATOM	12287	CG	GLN	D	308	26.241	93.691	77.144	1.00	31.49	C
ATOM	12288	CD	GLN	D	308	26.667	92.224	77.054	1.00	32.27	C
ATOM	12289	OE1	GLN	D	308	26.413	91.561	76.043	1.00	32.84	O
ATOM	12290	NE2	GLN	D	308	27.306	91.711	78.098	1.00	29.48	N
ATOM	12291	N	MET	D	309	27.744	94.100	73.886	1.00	33.42	N
ATOM	12292	CA	MET	D	309	27.088	94.365	72.608	1.00	32.88	C
ATOM	12293	C	MET	D	309	25.606	94.066	72.762	1.00	32.91	C
ATOM	12294	O	MET	D	309	25.189	93.209	73.562	1.00	32.28	O
ATOM	12295	CB	MET	D	309	27.682	93.518	71.484	1.00	35.03	C
ATOM	12296	CG	MET	D	309	29.201	93.646	71.338	1.00	37.24	C
ATOM	12297	SD	MET	D	309	29.808	92.757	69.922	1.00	40.90	S
ATOM	12298	CE	MET	D	309	30.046	91.055	70.575	1.00	38.32	C
ATOM	12299	N	LEU	D	310	24.812	94.785	71.997	1.00	31.07	N
ATOM	12300	CA	LEU	D	310	23.389	94.643	72.071	1.00	31.30	C
ATOM	12301	C	LEU	D	310	22.878	94.190	70.706	1.00	31.37	C
ATOM	12302	O	LEU	D	310	23.646	94.194	69.736	1.00	31.39	O
ATOM	12303	CB	LEU	D	310	22.804	95.996	72.466	1.00	32.03	C
ATOM	12304	CG	LEU	D	310	23.442	96.679	73.703	1.00	32.47	C
ATOM	12305	CD1	LEU	D	310	22.794	98.047	73.967	1.00	32.32	C
ATOM	12306	CD2	LEU	D	310	23.234	95.783	74.928	1.00	31.50	C
ATOM	12307	N	ALA	D	311	21.596	93.813	70.641	1.00	30.31	N
ATOM	12308	CA	ALA	D	311	20.958	93.372	69.391	1.00	28.54	C
ATOM	12309	C	ALA	D	311	19.597	93.996	69.357	1.00	27.91	C
ATOM	12310	O	ALA	D	311	18.950	94.129	70.398	1.00	28.77	O
ATOM	12311	CB	ALA	D	311	20.832	91.858	69.349	1.00	29.52	C
ATOM	12312	N	TYR	D	312	19.141	94.381	68.167	1.00	27.99	N
ATOM	12313	CA	TYR	D	312	17.851	95.032	68.050	1.00	28.05	C



ATOM	12314	C	TYR	D	312	16.937	94.396	66.999	1.00	28.47	C
ATOM	12315	O	TYR	D	312	17.381	94.086	65.894	1.00	28.70	O
ATOM	12316	CB	TYR	D	312	18.099	96.534	67.745	1.00	29.33	C
ATOM	12317	CG	TYR	D	312	16.895	97.396	67.923	1.00	29.55	C
ATOM	12318	CD1	TYR	D	312	15.870	97.393	66.981	1.00	30.52	C
ATOM	12319	CD2	TYR	D	312	16.757	98.216	69.047	1.00	30.47	C
ATOM	12320	CE1	TYR	D	312	14.749	98.181	67.145	1.00	29.55	C
ATOM	12321	CE2	TYR	D	312	15.627	98.999	69.218	1.00	29.11	C
ATOM	12322	CZ	TYR	D	312	14.636	98.975	68.265	1.00	29.10	C
ATOM	12323	OH	TYR	D	312	13.504	99.723	68.438	1.00	32.42	O
ATOM	12324	N	ASN	D	313	15.657	94.239	67.345	1.00	28.44	N
ATOM	12325	CA	ASN	D	313	14.673	93.642	66.448	1.00	28.13	C
ATOM	12326	C	ASN	D	313	13.805	94.651	65.708	1.00	28.50	C
ATOM	12327	O	ASN	D	313	12.816	95.153	66.262	1.00	29.42	O
ATOM	12328	CB	ASN	D	313	13.754	92.654	67.220	1.00	26.43	C
ATOM	12329	CG	ASN	D	313	12.544	92.162	66.380	1.00	25.29	C
ATOM	12330	OD1	ASN	D	313	12.519	92.280	65.153	1.00	22.82	O
ATOM	12331	ND2	ASN	D	313	11.543	91.598	67.057	1.00	26.19	N
ATOM	12332	N	CYS	D	314	14.147	94.918	64.445	1.00	27.58	N
ATOM	12333	CA	CYS	D	314	13.348	95.834	63.627	1.00	28.18	C
ATOM	12334	C	CYS	D	314	12.171	95.037	63.080	1.00	28.51	C
ATOM	12335	O	CYS	D	314	12.129	94.734	61.895	1.00	29.62	O
ATOM	12336	CB	CYS	D	314	14.179	96.402	62.460	1.00	27.64	C
ATOM	12337	SG	CYS	D	314	15.726	97.206	62.963	1.00	32.40	S
ATOM	12338	N	SER	D	315	11.206	94.741	63.945	1.00	28.92	N
ATOM	12339	CA	SER	D	315	10.042	93.924	63.609	1.00	29.09	C
ATOM	12340	C	SER	D	315	8.891	94.459	62.748	1.00	28.07	C
ATOM	12341	O	SER	D	315	8.455	95.608	62.866	1.00	28.49	O
ATOM	12342	CB	SER	D	315	9.457	93.352	64.904	1.00	28.51	C
ATOM	12343	OG	SER	D	315	8.099	92.941	64.749	1.00	32.97	O
ATOM	12344	N	PRO	D	316	8.406	93.613	61.840	1.00	27.69	N
ATOM	12345	CA	PRO	D	316	7.300	93.903	60.926	1.00	27.22	C
ATOM	12346	C	PRO	D	316	6.042	93.990	61.764	1.00	27.41	C
ATOM	12347	O	PRO	D	316	4.972	94.347	61.258	1.00	29.49	O
ATOM	12348	CB	PRO	D	316	7.296	92.685	59.993	1.00	26.57	C
ATOM	12349	CG	PRO	D	316	8.773	92.324	59.934	1.00	27.41	C
ATOM	12350	CD	PRO	D	316	9.165	92.428	61.392	1.00	27.62	C
ATOM	12351	N	SER	D	317	6.150	93.650	63.052	1.00	27.51	N
ATOM	12352	CA	SER	D	317	4.974	93.728	63.910	1.00	28.18	C
ATOM	12353	C	SER	D	317	4.670	95.190	64.253	1.00	28.57	C
ATOM	12354	O	SER	D	317	3.640	95.477	64.845	1.00	28.57	O
ATOM	12355	CB	SER	D	317	5.159	92.904	65.187	1.00	28.82	C
ATOM	12356	OG	SER	D	317	5.094	91.523	64.873	1.00	28.72	O
ATOM	12357	N	PHE	D	318	5.582	96.081	63.859	1.00	30.36	N
ATOM	12358	CA	PHE	D	318	5.453	97.534	64.052	1.00	32.23	C
ATOM	12359	C	PHE	D	318	4.897	98.110	62.749	1.00	34.26	C
ATOM	12360	O	PHE	D	318	5.279	97.664	61.657	1.00	34.93	O
ATOM	12361	CB	PHE	D	318	6.817	98.217	64.251	1.00	32.23	C
ATOM	12362	CG	PHE	D	318	7.578	97.790	65.486	1.00	31.42	C
ATOM	12363	CD1	PHE	D	318	6.916	97.505	66.681	1.00	30.97	C
ATOM	12364	CD2	PHE	D	318	8.983	97.733	65.459	1.00	31.46	C
ATOM	12365	CE1	PHE	D	318	7.641	97.174	67.822	1.00	30.98	C
ATOM	12366	CE2	PHE	D	318	9.725	97.400	66.608	1.00	30.35	C
ATOM	12367	CZ	PHE	D	318	9.046	97.121	67.788	1.00	30.82	C
ATOM	12368	N	ASN	D	319	3.997	99.086	62.857	1.00	34.87	N
ATOM	12369	CA	ASN	D	319	3.453	99.756	61.672	1.00	35.54	C
ATOM	12370	C	ASN	D	319	4.444	100.900	61.529	1.00	36.21	C
ATOM	12371	O	ASN	D	319	4.222	101.980	62.074	1.00	37.93	O
ATOM	12372	CB	ASN	D	319	2.056	100.289	61.979	1.00	34.71	C
ATOM	12373	CG	ASN	D	319	1.385	100.911	60.766	1.00	34.77	C
ATOM	12374	OD1	ASN	D	319	0.163	101.056	60.741	1.00	37.46	O
ATOM	12375	ND2	ASN	D	319	2.172	101.282	59.763	1.00	32.07	N
ATOM	12376	N	TRP	D	320	5.541	100.669	60.817	1.00	37.29	N
ATOM	12377	CA	TRP	D	320	6.601	101.670	60.717	1.00	37.46	C
ATOM	12378	C	TRP	D	320	6.313	103.121	60.391	1.00	39.78	C
ATOM	12379	O	TRP	D	320	6.879	104.017	61.040	1.00	40.68	O
ATOM	12380	CB	TRP	D	320	7.720	101.160	59.809	1.00	37.23	C
ATOM	12381	CG	TRP	D	320	8.465	100.056	60.472	1.00	35.59	C
ATOM	12382	CD1	TRP	D	320	7.977	98.818	60.777	1.00	35.42	C
ATOM	12383	CD2	TRP	D	320	9.777	100.127	61.052	1.00	35.40	C
ATOM	12384	NE1	TRP	D	320	8.892	98.121	61.517	1.00	34.69	N
ATOM	12385	CE2	TRP	D	320	10.009	98.896	61.702	1.00	36.06	C
ATOM	12386	CE3	TRP	D	320	10.776	101.114	61.095	1.00	35.91	C
ATOM	12387	CZ2	TRP	D	320	11.206	98.622	62.392	1.00	34.46	C
ATOM	12388	CZ3	TRP	D	320	11.967	100.847	61.782	1.00	35.12	C
ATOM	12389	CH2	TRP	D	320	12.169	99.605	62.423	1.00	35.48	C
ATOM	12390	N	LYS	D	321	5.465	103.392	59.410	1.00	40.71	N
ATOM	12391	CA	LYS	D	321	5.194	104.796	59.091	1.00	41.79	C
ATOM	12392	C	LYS	D	321	4.132	105.434	59.994	1.00	42.47	C
ATOM	12393	O	LYS	D	321	3.957	106.663	60.001	1.00	42.48	O



ATOM	12394	CB	LYS	D	321	4.849	104.934	57.602	1.00	42.01	C
ATOM	12395	CG	LYS	D	321	6.029	104.503	56.727	1.00	42.57	C
ATOM	12396	CD	LYS	D	321	5.724	104.547	55.245	1.00	44.38	C
ATOM	12397	CE	LYS	D	321	5.360	105.955	54.844	1.00	46.10	C
ATOM	12398	NZ	LYS	D	321	6.307	106.950	55.481	1.00	47.96	N
ATOM	12399	N	LYS	D	322	3.425	104.606	60.760	1.00	42.88	N
ATOM	12400	CA	LYS	D	322	2.438	105.127	61.681	1.00	43.62	C
ATOM	12401	C	LYS	D	322	3.205	105.722	62.855	1.00	44.14	C
ATOM	12402	O	LYS	D	322	2.672	106.522	63.623	1.00	44.24	O
ATOM	12403	CB	LYS	D	322	1.502	104.031	62.203	1.00	44.34	C
ATOM	12404	CG	LYS	D	322	0.640	104.537	63.374	1.00	45.36	C
ATOM	12405	CD	LYS	D	322	-0.427	103.576	63.838	1.00	46.81	C
ATOM	12406	CE	LYS	D	322	-0.950	104.015	65.202	1.00	48.91	C
ATOM	12407	NZ	LYS	D	322	-2.313	103.484	65.523	1.00	49.59	N
ATOM	12408	N	HIS	D	323	4.466	105.332	62.990	1.00	44.40	N
ATOM	12409	CA	HIS	D	323	5.301	105.829	64.075	1.00	44.67	C
ATOM	12410	C	HIS	D	323	6.348	106.809	63.598	1.00	43.94	C
ATOM	12411	O	HIS	D	323	6.477	107.908	64.133	1.00	44.12	O
ATOM	12412	CB	HIS	D	323	5.997	104.662	64.788	1.00	46.90	C
ATOM	12413	CG	HIS	D	323	5.043	103.721	65.445	1.00	49.22	C
ATOM	12414	ND1	HIS	D	323	4.178	104.122	66.443	1.00	50.45	N
ATOM	12415	CD2	HIS	D	323	4.766	102.418	65.205	1.00	50.08	C
ATOM	12416	CE1	HIS	D	323	3.404	103.108	66.786	1.00	51.07	C
ATOM	12417	NE2	HIS	D	323	3.740	102.060	66.050	1.00	51.79	N
ATOM	12418	N	LEU	D	324	7.095	106.412	62.582	1.00	43.08	N
ATOM	12419	CA	LEU	D	324	8.156	107.260	62.082	1.00	42.65	C
ATOM	12420	C	LEU	D	324	7.879	107.832	60.704	1.00	42.76	C
ATOM	12421	O	LEU	D	324	6.986	107.366	59.975	1.00	42.46	O
ATOM	12422	CB	LEU	D	324	9.459	106.473	62.054	1.00	41.37	C
ATOM	12423	CG	LEU	D	324	9.787	105.751	63.373	1.00	42.60	C
ATOM	12424	CD1	LEU	D	324	10.809	104.668	63.118	1.00	40.41	C
ATOM	12425	CD2	LEU	D	324	10.304	106.743	64.415	1.00	41.81	C
ATOM	12426	N	ASP	D	325	8.643	108.868	60.369	1.00	42.57	N
ATOM	12427	CA	ASP	D	325	8.545	109.512	59.074	1.00	42.33	C
ATOM	12428	C	ASP	D	325	9.758	108.982	58.313	1.00	41.00	C
ATOM	12429	O	ASP	D	325	10.665	108.421	58.928	1.00	41.12	O
ATOM	12430	CB	ASP	D	325	8.599	111.045	59.219	1.00	44.29	C
ATOM	12431	CG	ASP	D	325	9.879	111.541	59.908	1.00	45.42	C
ATOM	12432	OD1	ASP	D	325	10.910	110.820	59.890	1.00	46.15	O
ATOM	12433	OD2	ASP	D	325	9.850	112.680	60.452	1.00	47.91	O
ATOM	12434	N	ASP	D	326	9.764	109.156	56.991	1.00	40.30	N
ATOM	12435	CA	ASP	D	326	10.840	108.662	56.113	1.00	39.57	C
ATOM	12436	C	ASP	D	326	12.259	109.022	56.490	1.00	37.56	C
ATOM	12437	O	ASP	D	326	13.199	108.279	56.216	1.00	37.96	O
ATOM	12438	CB	ASP	D	326	10.568	109.092	54.659	1.00	40.21	C
ATOM	12439	CG	ASP	D	326	9.258	108.534	54.134	1.00	42.36	C
ATOM	12440	OD1	ASP	D	326	8.635	107.741	54.885	1.00	43.61	O
ATOM	12441	OD2	ASP	D	326	8.855	108.868	52.994	1.00	42.01	O
ATOM	12442	N	ALA	D	327	12.426	110.177	57.102	1.00	36.92	N
ATOM	12443	CA	ALA	D	327	13.756	110.619	57.505	1.00	36.67	C
ATOM	12444	C	ALA	D	327	14.281	109.748	58.641	1.00	35.77	C
ATOM	12445	O	ALA	D	327	15.460	109.377	58.682	1.00	34.70	O
ATOM	12446	CB	ALA	D	327	13.690	112.065	57.971	1.00	36.08	C
ATOM	12447	N	THR	D	328	13.386	109.452	59.573	1.00	36.20	N
ATOM	12448	CA	THR	D	328	13.738	108.649	60.737	1.00	36.66	C
ATOM	12449	C	THR	D	328	13.892	107.180	60.336	1.00	36.16	C
ATOM	12450	O	THR	D	328	14.814	106.506	60.784	1.00	36.97	O
ATOM	12451	CB	THR	D	328	12.662	108.773	61.857	1.00	37.56	C
ATOM	12452	OG1	THR	D	328	12.369	110.158	62.105	1.00	36.29	O
ATOM	12453	CG2	THR	D	328	13.184	108.159	63.158	1.00	36.74	C
ATOM	12454	N	ILE	D	329	13.000	106.701	59.473	1.00	36.22	N
ATOM	12455	CA	ILE	D	329	13.065	105.310	59.019	1.00	35.23	C
ATOM	12456	C	ILE	D	329	14.379	105.076	58.286	1.00	34.70	C
ATOM	12457	O	ILE	D	329	15.017	104.042	58.435	1.00	34.51	O
ATOM	12458	CB	ILE	D	329	11.911	104.981	58.061	1.00	35.31	C
ATOM	12459	CG1	ILE	D	329	10.578	105.077	58.812	1.00	35.80	C
ATOM	12460	CG2	ILE	D	329	12.151	103.602	57.448	1.00	35.03	C
ATOM	12461	CD1	ILE	D	329	9.332	105.038	57.927	1.00	37.36	C
ATOM	12462	N	ALA	D	330	14.771	106.063	57.487	1.00	35.07	N
ATOM	12463	CA	ALA	D	330	16.004	106.003	56.703	1.00	33.79	C
ATOM	12464	C	ALA	D	330	17.283	105.900	57.533	1.00	33.30	C
ATOM	12465	O	ALA	D	330	18.254	105.242	57.129	1.00	34.00	O
ATOM	12466	CB	ALA	D	330	16.078	107.235	55.764	1.00	32.65	C
ATOM	12467	N	LYS	D	331	17.325	106.555	58.688	1.00	34.53	N
ATOM	12468	CA	LYS	D	331	18.541	106.470	59.492	1.00	34.65	C
ATOM	12469	C	LYS	D	331	18.423	105.515	60.670	1.00	34.79	C
ATOM	12470	O	LYS	D	331	19.397	105.296	61.392	1.00	33.55	O
ATOM	12471	CB	LYS	D	331	18.946	107.851	60.035	1.00	36.09	C
ATOM	12472	CG	LYS	D	331	17.956	108.502	60.978	1.00	36.29	C
ATOM	12473	CD	LYS	D	331	18.662	109.639	61.721	1.00	39.45	C



ATOM	12474	CE	LYS	D	331	17.683	110.489	62.504	1.00	41.23	
ATOM	12475	NZ	LYS	D	331	18.412	111.420	63.428	1.00	42.71	N
ATOM	12476	N	PHE	D	332	17.231	104.959	60.855	1.00	34.40	N
ATOM	12477	CA	PHE	D	332	16.967	104.070	61.981	1.00	34.78	C
ATOM	12478	C	PHE	D	332	18.073	103.130	62.402	1.00	34.77	C
ATOM	12479	O	PHE	D	332	18.531	103.205	63.540	1.00	35.58	O
ATOM	12480	CB	PHE	D	332	15.708	103.260	61.744	1.00	35.85	C
ATOM	12481	CG	PHE	D	332	15.080	102.787	63.004	1.00	37.39	C
ATOM	12482	CD1	PHE	D	332	14.344	103.669	63.797	1.00	37.84	C
ATOM	12483	CD2	PHE	D	332	15.243	101.468	63.423	1.00	37.96	C
ATOM	12484	CE1	PHE	D	332	13.771	103.241	64.996	1.00	38.56	C
ATOM	12485	CE2	PHE	D	332	14.684	101.025	64.616	1.00	38.03	C
ATOM	12486	CZ	PHE	D	332	13.942	101.909	65.409	1.00	39.69	C
ATOM	12487	N	GLN	D	333	18.512	102.247	61.509	1.00	35.06	N
ATOM	12488	CA	GLN	D	333	19.571	101.299	61.851	1.00	33.89	C
ATOM	12489	C	GLN	D	333	20.930	101.963	62.118	1.00	34.20	
ATOM	12490	O	GLN	D	333	21.656	101.568	63.032	1.00	33.82	O
ATOM	12491	CB	GLN	D	333	19.750	100.231	60.751	1.00	35.61	C
ATOM	12492	CG	GLN	D	333	18.492	99.434	60.352	1.00	35.47	C
ATOM	12493	CD	GLN	D	333	18.772	97.941	60.143	1.00	35.89	
ATOM	12494	OE1	GLN	D	333	19.879	97.537	59.778	1.00	35.22	O
ATOM	12495	NE2	GLN	D	333	17.755	97.123	60.372	1.00	36.54	N
ATOM	12496	N	LYS	D	334	21.293	102.966	61.329	1.00	34.54	N
ATOM	12497	CA	LYS	D	334	22.586	103.608	61.563	1.00	34.15	
ATOM	12498	C	LYS	D	334	22.636	104.243	62.941	1.00	32.52	C
ATOM	12499	O	LYS	D	334	23.659	104.183	63.591	1.00	30.71	O
ATOM	12500	CB	LYS	D	334	22.889	104.684	60.526	1.00	35.60	
ATOM	12501	CG	LYS	D	334	24.368	105.061	60.539	1.00	37.97	C
ATOM	12502	CD	LYS	D	334	24.665	106.234	59.612	1.00	40.38	C
ATOM	12503	CE	LYS	D	334	26.136	106.245	59.163	1.00	41.42	
ATOM	12504	NZ	LYS	D	334	27.110	106.225	60.287	1.00	41.47	N
ATOM	12505	N	GLU	D	335	21.526	104.852	63.370	1.00	32.63	N
ATOM	12506	CA	GLU	D	335	21.448	105.483	64.699	1.00	34.56	C
ATOM	12507	C	GLU	D	335	21.582	104.396	65.776	1.00	34.60	
ATOM	12508	O	GLU	D	335	22.452	104.457	66.661	1.00	34.53	O
ATOM	12509	CB	GLU	D	335	20.117	106.233	64.860	1.00	36.04	C
ATOM	12510	CG	GLU	D	335	20.017	107.525	64.049	1.00	40.65	C
ATOM	12511	CD	GLU	D	335	21.003	108.595	64.534	1.00	43.04	
ATOM	12512	OE1	GLU	D	335	20.814	109.102	65.670	1.00	44.99	O
ATOM	12513	OE2	GLU	D	335	21.966	108.914	63.785	1.00	43.43	O
ATOM	12514	N	LEU	D	336	20.716	103.388	65.697	1.00	35.31	N
ATOM	12515	CA	LEU	D	336	20.779	102.288	66.648	1.00	34.05	C
ATOM	12516	C	LEU	D	336	22.210	101.760	66.752	1.00	33.40	C
ATOM	12517	O	LEU	D	336	22.699	101.482	67.849	1.00	32.88	O
ATOM	12518	CB	LEU	D	336	19.856	101.145	66.212	1.00	33.85	C
ATOM	12519	CG	LEU	D	336	18.379	101.458	66.379	1.00	33.36	C
ATOM	12520	CD1	LEU	D	336	17.533	100.316	65.843	1.00	33.83	C
ATOM	12521	CD2	LEU	D	336	18.109	101.668	67.868	1.00	34.53	C
ATOM	12522	N	ALA	D	337	22.891	101.630	65.618	1.00	32.78	N
ATOM	12523	CA	ALA	D	337	24.242	101.098	65.653	1.00	32.15	C
ATOM	12524	C	ALA	D	337	25.124	101.978	66.506	1.00	34.38	
ATOM	12525	O	ALA	D	337	26.002	101.482	67.199	1.00	33.66	O
ATOM	12526	CB	ALA	D	337	24.805	101.010	64.275	1.00	32.68	C
ATOM	12527	N	ALA	D	338	24.901	103.292	66.433	1.00	35.66	N
ATOM	12528	CA	ALA	D	338	25.713	104.201	67.227	1.00	37.90	C
ATOM	12529	C	ALA	D	338	25.478	103.811	68.680	1.00	38.27	C
ATOM	12530	O	ALA	D	338	26.419	103.638	69.451	1.00	39.80	O
ATOM	12531	CB	ALA	D	338	25.293	105.658	66.980	1.00	38.41	
ATOM	12532	N	MET	D	339	24.213	103.649	69.047	1.00	37.92	N
ATOM	12533	CA	MET	D	339	23.883	103.275	70.415	1.00	37.56	C
ATOM	12534	C	MET	D	339	24.550	101.966	70.912	1.00	37.13	
ATOM	12535	O	MET	D	339	24.554	101.679	72.115	1.00	37.20	O
ATOM	12536	CB	MET	D	339	22.362	103.209	70.555	1.00	38.08	C
ATOM	12537	CG	MET	D	339	21.698	104.503	70.226	1.00	39.79	C
ATOM	12538	SD	MET	D	339	19.902	104.426	70.364	1.00	46.79	S
ATOM	12539	CE	MET	D	339	19.374	105.726	69.173	1.00	45.02	C
ATOM	12540	N	GLY	D	340	25.106	101.169	70.004	1.00	36.63	N
ATOM	12541	CA	GLY	D	340	25.771	99.941	70.423	1.00	34.96	C
ATOM	12542	C	GLY	D	340	25.054	98.644	70.050	1.00	34.35	C
ATOM	12543	O	GLY	D	340	25.407	97.558	70.525	1.00	35.05	O
ATOM	12544	N	PHE	D	341	24.030	98.752	69.212	1.00	33.96	N
ATOM	12545	CA	PHE	D	341	23.311	97.561	68.766	1.00	31.58	C
ATOM	12546	C	PHE	D	341	24.094	97.030	67.568	1.00	30.35	C
ATOM	12547	O	PHE	D	341	23.954	97.533	66.459	1.00	32.22	O
ATOM	12548	CB	PHE	D	341	21.883	97.965	68.407	1.00	32.54	C
ATOM	12549	CG	PHE	D	341	21.092	98.481	69.584	1.00	33.97	C
ATOM	12550	CD1	PHE	D	341	20.601	97.604	70.554	1.00	34.60	C
ATOM	12551	CD2	PHE	D	341	20.862	99.851	69.746	1.00	34.30	C
ATOM	12552	CE1	PHE	D	341	19.892	98.083	71.669	1.00	34.29	C
ATOM	12553	CE2	PHE	D	341	20.155	100.344	70.854	1.00	34.60	C



ATOM	12554	CZ	PHE	D	341	19.669	99.461	71.818	1.00	34.29	C
ATOM	12555	N	LYS	D	342	24.960	96.042	67.801	1.00	30.90	N
ATOM	12556	CA	LYS	D	342	25.790	95.464	66.747	1.00	30.54	C
ATOM	12557	C	LYS	D	342	25.097	94.370	65.884	1.00	30.39	C
ATOM	12558	O	LYS	D	342	25.665	93.905	64.872	1.00	29.75	O
ATOM	12559	CB	LYS	D	342	27.082	94.901	67.349	1.00	31.33	C
ATOM	12560	CG	LYS	D	342	27.989	95.938	68.016	1.00	34.37	C
ATOM	12561	CD	LYS	D	342	28.585	96.872	66.965	1.00	35.48	C
ATOM	12562	CE	LYS	D	342	29.693	97.760	67.536	1.00	38.03	C
ATOM	12563	NZ	LYS	D	342	30.370	98.579	66.476	1.00	39.54	N
ATOM	12564	N	PHE	D	343	23.894	93.958	66.294	1.00	29.00	N
ATOM	12565	CA	PHE	D	343	23.136	92.953	65.539	1.00	27.53	C
ATOM	12566	C	PHE	D	343	21.692	93.446	65.412	1.00	27.25	C
ATOM	12567	O	PHE	D	343	20.974	93.655	66.405	1.00	26.07	O
ATOM	12568	CB	PHE	D	343	23.207	91.562	66.209	1.00	27.47	C
ATOM	12569	CG	PHE	D	343	22.665	90.450	65.335	1.00	28.55	C
ATOM	12570	CD1	PHE	D	343	23.350	90.065	64.180	1.00	27.95	C
ATOM	12571	CD2	PHE	D	343	21.401	89.899	65.583	1.00	29.46	C
ATOM	12572	CE1	PHE	D	343	22.778	89.159	63.268	1.00	29.27	C
ATOM	12573	CE2	PHE	D	343	20.821	88.995	64.676	1.00	28.14	C
ATOM	12574	CZ	PHE	D	343	21.511	88.632	63.519	1.00	29.01	C
ATOM	12575	N	GLN	D	344	21.279	93.697	64.174	1.00	25.64	N
ATOM	12576	CA	GLN	D	344	19.942	94.179	63.956	1.00	27.14	C
ATOM	12577	C	GLN	D	344	19.313	93.262	62.917	1.00	25.99	C
ATOM	12578	O	GLN	D	344	20.006	92.804	62.026	1.00	26.82	O
ATOM	12579	CB	GLN	D	344	19.989	95.634	63.476	1.00	28.77	C
ATOM	12580	CG	GLN	D	344	21.126	96.457	64.127	1.00	30.02	C
ATOM	12581	CD	GLN	D	344	21.035	97.948	63.803	1.00	30.80	C
ATOM	12582	OE1	GLN	D	344	21.989	98.695	64.003	1.00	30.87	O
ATOM	12583	NE2	GLN	D	344	19.884	98.378	63.325	1.00	28.40	N
ATOM	12584	N	PHE	D	345	17.997	93.049	63.011	1.00	26.49	N
ATOM	12585	CA	PHE	D	345	17.323	92.119	62.121	1.00	24.62	C
ATOM	12586	C	PHE	D	345	15.809	92.325	62.007	1.00	24.94	C
ATOM	12587	O	PHE	D	345	15.148	92.733	62.977	1.00	26.39	O
ATOM	12588	CB	PHE	D	345	17.610	90.688	62.644	1.00	25.93	C
ATOM	12589	CG	PHE	D	345	17.250	90.493	64.113	1.00	24.92	C
ATOM	12590	CD1	PHE	D	345	18.122	90.912	65.118	1.00	25.22	C
ATOM	12591	CD2	PHE	D	345	15.974	90.022	64.492	1.00	24.37	C
ATOM	12592	CE1	PHE	D	345	17.726	90.880	66.490	1.00	25.69	C
ATOM	12593	CE2	PHE	D	345	15.569	89.986	65.862	1.00	21.95	C
ATOM	12594	CZ	PHE	D	345	16.444	90.417	66.852	1.00	25.00	C
ATOM	12595	N	ILE	D	346	15.265	92.042	60.817	1.00	23.65	N
ATOM	12596	CA	ILE	D	346	13.827	92.105	60.574	1.00	24.13	C
ATOM	12597	C	ILE	D	346	13.366	90.639	60.656	1.00	24.98	C
ATOM	12598	O	ILE	D	346	13.487	89.858	59.694	1.00	24.39	O
ATOM	12599	CB	ILE	D	346	13.482	92.665	59.176	1.00	21.21	C
ATOM	12600	CG1	ILE	D	346	14.118	94.068	59.013	1.00	22.90	C
ATOM	12601	CG2	ILE	D	346	11.952	92.798	59.027	1.00	21.62	C
ATOM	12602	CD1	ILE	D	346	13.770	94.763	57.721	1.00	21.84	C
ATOM	12603	N	THR	D	347	12.847	90.281	61.826	1.00	26.85	N
ATOM	12604	CA	THR	D	347	12.413	88.931	62.092	1.00	24.86	C
ATOM	12605	C	THR	D	347	11.525	88.285	61.042	1.00	25.10	C
ATOM	12606	O	THR	D	347	11.860	87.195	60.565	1.00	25.95	O
ATOM	12607	CB	THR	D	347	11.672	88.871	63.391	1.00	26.36	C
ATOM	12608	OG1	THR	D	347	10.594	89.813	63.341	1.00	27.89	O
ATOM	12609	CG2	THR	D	347	12.594	89.187	64.542	1.00	25.30	C
ATOM	12610	N	LEU	D	348	10.394	88.920	60.703	1.00	23.14	N
ATOM	12611	CA	LEU	D	348	9.473	88.328	59.741	1.00	23.07	C
ATOM	12612	C	LEU	D	348	9.623	88.722	58.262	1.00	22.96	C
ATOM	12613	O	LEU	D	348	8.648	88.626	57.497	1.00	24.62	O
ATOM	12614	CB	LEU	D	348	8.026	88.566	60.210	1.00	24.61	C
ATOM	12615	CG	LEU	D	348	7.784	88.446	61.726	1.00	26.04	C
ATOM	12616	CD1	LEU	D	348	6.302	88.454	62.023	1.00	25.24	C
ATOM	12617	CD2	LEU	D	348	8.406	87.167	62.246	1.00	25.60	C
ATOM	12618	N	ALA	D	349	10.827	89.149	57.868	1.00	22.08	N
ATOM	12619	CA	ALA	D	349	11.128	89.557	56.488	1.00	22.80	C
ATOM	12620	C	ALA	D	349	10.685	88.550	55.439	1.00	22.51	C
ATOM	12621	O	ALA	D	349	10.036	88.908	54.448	1.00	24.69	O
ATOM	12622	CB	ALA	D	349	12.623	89.807	56.323	1.00	24.20	C
ATOM	12623	N	GLY	D	350	11.041	87.290	55.658	1.00	22.82	N
ATOM	12624	CA	GLY	D	350	10.699	86.236	54.709	1.00	20.03	C
ATOM	12625	C	GLY	D	350	9.224	85.963	54.621	1.00	19.51	C
ATOM	12626	O	GLY	D	350	8.690	85.761	53.524	1.00	23.67	O
ATOM	12627	N	PHE	D	351	8.538	85.929	55.751	1.00	20.91	N
ATOM	12628	CA	PHE	D	351	7.129	85.668	55.683	1.00	20.72	C
ATOM	12629	C	PHE	D	351	6.463	86.746	54.809	1.00	22.97	C
ATOM	12630	O	PHE	D	351	5.651	86.427	53.919	1.00	19.59	O
ATOM	12631	CB	PHE	D	351	6.489	85.627	57.080	1.00	21.46	C
ATOM	12632	CG	PHE	D	351	4.976	85.701	57.070	1.00	21.88	C
ATOM	12633	CD1	PHE	D	351	4.316	86.930	56.962	1.00	23.19	C

12554 12555 12556 12557 12558 12559 12560 12561 12562 12563 12564 12565 12566 12567 12568 12569 12570 12571 12572 12573 12574 12575 12576 12577 12578 12579 12580 12581 12582 12583 12584 12585 12586 12587 12588 12589 12590 12591 12592 12593 12594 12595 12596 12597 12598 12599 12600 12601 12602 12603 12604 12605 12606 12607 12608 12609 12610 12611 12612 12613 12614 12615 12616 12617 12618 12619 12620 12621 12622 12623 12624 12625 12626 12627 12628 12629 12630 12631 12632 12633



ATOM	12634	CD2	PHE	D	351	4.207	84.567	57.224	1.00	22.36	C
ATOM	12635	CE1	PHE	D	351	2.939	87.003	57.016	1.00	21.06	C
ATOM	12636	CE2	PHE	D	351	2.824	84.631	57.283	1.00	20.75	C
ATOM	12637	CZ	PHE	D	351	2.178	85.857	57.179	1.00	22.54	C
ATOM	12638	N	HIS	D	352	6.814	88.017	55.028	1.00	21.83	N
ATOM	12639	CA	HIS	D	352	6.133	89.054	54.234	1.00	20.74	C
ATOM	12640	C	HIS	D	352	6.502	89.039	52.760	1.00	22.11	C
ATOM	12641	O	HIS	D	352	5.637	89.154	51.892	1.00	25.31	O
ATOM	12642	CB	HIS	D	352	6.331	90.435	54.884	1.00	18.65	C
ATOM	12643	CG	HIS	D	352	5.449	90.654	56.074	1.00	19.04	C
ATOM	12644	ND1	HIS	D	352	4.076	90.740	55.973	1.00	20.97	N
ATOM	12645	CD2	HIS	D	352	5.724	90.671	57.399	1.00	19.34	C
ATOM	12646	CE1	HIS	D	352	3.543	90.792	57.181	1.00	20.13	C
ATOM	12647	NE2	HIS	D	352	4.522	90.746	58.066	1.00	21.03	N
ATOM	12648	N	ALA	D	353	7.770	88.855	52.452	1.00	21.36	N
ATOM	12649	CA	ALA	D	353	8.190	88.816	51.066	1.00	20.76	C
ATOM	12650	C	ALA	D	353	7.539	87.669	50.294	1.00	23.01	C
ATOM	12651	O	ALA	D	353	7.127	87.833	49.138	1.00	23.79	O
ATOM	12652	CB	ALA	D	353	9.703	88.703	50.989	1.00	19.78	C
ATOM	12653	N	LEU	D	354	7.437	86.515	50.935	1.00	20.76	N
ATOM	12654	CA	LEU	D	354	6.845	85.356	50.296	1.00	21.35	C
ATOM	12655	C	LEU	D	354	5.301	85.469	50.214	1.00	20.80	C
ATOM	12656	O	LEU	D	354	4.713	85.178	49.154	1.00	21.58	O
ATOM	12657	CB	LEU	D	354	7.299	84.091	51.063	1.00	21.38	C
ATOM	12658	CG	LEU	D	354	6.759	82.709	50.703	1.00	21.27	C
ATOM	12659	CD1	LEU	D	354	7.541	81.655	51.415	1.00	21.34	C
ATOM	12660	CD2	LEU	D	354	5.292	82.634	51.090	1.00	20.56	C
ATOM	12661	N	ASN	D	355	4.637	85.922	51.278	1.00	21.15	N
ATOM	12662	CA	ASN	D	355	3.181	86.017	51.195	1.00	22.31	C
ATOM	12663	C	ASN	D	355	2.793	87.090	50.201	1.00	22.72	C
ATOM	12664	O	ASN	D	355	1.996	86.847	49.306	1.00	23.57	O
ATOM	12665	CB	ASN	D	355	2.569	86.286	52.550	1.00	22.63	C
ATOM	12666	CG	ASN	D	355	2.378	85.017	53.347	1.00	22.82	C
ATOM	12667	OD1	ASN	D	355	1.283	84.443	53.375	1.00	24.57	O
ATOM	12668	ND2	ASN	D	355	3.446	84.551	53.967	1.00	23.54	N
ATOM	12669	N	TYR	D	356	3.386	88.263	50.338	1.00	23.73	N
ATOM	12670	CA	TYR	D	356	3.049	89.338	49.403	1.00	25.76	C
ATOM	12671	C	TYR	D	356	3.369	88.996	47.937	1.00	25.60	C
ATOM	12672	O	TYR	D	356	2.490	89.109	47.068	1.00	25.23	O
ATOM	12673	CB	TYR	D	356	3.764	90.636	49.755	1.00	27.12	C
ATOM	12674	CG	TYR	D	356	3.415	91.693	48.737	1.00	28.22	C
ATOM	12675	CD1	TYR	D	356	2.106	92.171	48.642	1.00	30.32	C
ATOM	12676	CD2	TYR	D	356	4.357	92.139	47.811	1.00	30.39	C
ATOM	12677	CE1	TYR	D	356	1.730	93.082	47.618	1.00	32.00	C
ATOM	12678	CE2	TYR	D	356	3.995	93.056	46.787	1.00	30.67	C
ATOM	12679	CZ	TYR	D	356	2.679	93.507	46.705	1.00	31.88	C
ATOM	12680	OH	TYR	D	356	2.295	94.363	45.691	1.00	34.10	O
ATOM	12681	N	SER	D	357	4.613	88.592	47.656	1.00	25.65	N
ATOM	12682	CA	SER	D	357	4.965	88.274	46.282	1.00	26.19	C
ATOM	12683	C	SER	D	357	4.030	87.259	45.602	1.00	26.65	C
ATOM	12684	O	SER	D	357	3.733	87.393	44.415	1.00	26.11	O
ATOM	12685	CB	SER	D	357	6.410	87.772	46.187	1.00	26.92	C
ATOM	12686	OG	SER	D	357	6.548	86.469	46.768	1.00	29.06	O
ATOM	12687	N	MET	D	358	3.539	86.261	46.334	1.00	25.67	N
ATOM	12688	CA	MET	D	358	2.692	85.256	45.701	1.00	25.01	C
ATOM	12689	C	MET	D	358	1.257	85.739	45.553	1.00	24.86	C
ATOM	12690	O	MET	D	358	0.544	85.386	44.602	1.00	25.68	O
ATOM	12691	CB	MET	D	358	2.749	83.920	46.477	1.00	22.76	C
ATOM	12692	CG	MET	D	358	1.919	82.769	45.803	1.00	24.52	C
ATOM	12693	SD	MET	D	358	2.325	82.454	44.040	1.00	26.81	S
ATOM	12694	CE	MET	D	358	4.009	81.874	44.192	1.00	25.51	C
ATOM	12695	N	PHE	D	359	0.809	86.550	46.490	1.00	25.95	N
ATOM	12696	CA	PHE	D	359	-0.538	87.053	46.346	1.00	25.42	C
ATOM	12697	C	PHE	D	359	-0.545	87.957	45.112	1.00	24.86	C
ATOM	12698	O	PHE	D	359	-1.486	87.933	44.320	1.00	25.40	O
ATOM	12699	CB	PHE	D	359	-0.976	87.859	47.557	1.00	26.44	C
ATOM	12700	CG	PHE	D	359	-2.285	88.544	47.350	1.00	26.21	C
ATOM	12701	CD1	PHE	D	359	-2.343	89.768	46.682	1.00	28.02	C
ATOM	12702	CD2	PHE	D	359	-3.464	87.935	47.732	1.00	26.72	C
ATOM	12703	CE1	PHE	D	359	-3.553	90.357	46.396	1.00	27.38	C
ATOM	12704	CE2	PHE	D	359	-4.689	88.518	47.452	1.00	27.28	C
ATOM	12705	CZ	PHE	D	359	-4.728	89.743	46.772	1.00	28.66	C
ATOM	12706	N	ASP	D	360	0.529	88.713	44.941	1.00	25.84	N
ATOM	12707	CA	ASP	D	360	0.644	89.659	43.826	1.00	28.19	C
ATOM	12708	C	ASP	D	360	0.641	88.920	42.500	1.00	28.88	C
ATOM	12709	O	ASP	D	360	-0.120	89.266	41.571	1.00	29.38	O
ATOM	12710	CB	ASP	D	360	1.916	90.516	43.948	1.00	28.24	C
ATOM	12711	CG	ASP	D	360	2.009	91.592	42.854	1.00	31.25	C
ATOM	12712	OD1	ASP	D	360	0.995	92.299	42.624	1.00	31.48	O
ATOM	12713	OD2	ASP	D	360	3.087	91.729	42.232	1.00	32.38	O



ATOM	12714	N	LEU	D	361	1.469	87.886	42.411	1.00	27.98	N
ATOM	12715	CA	LEU	D	361	1.520	87.110	41.189	1.00	27.03	C
ATOM	12716	C	LEU	D	361	0.210	86.379	40.955	1.00	26.51	C
ATOM	12717	O	LEU	D	361	-0.337	86.448	39.848	1.00	29.08	O
ATOM	12718	CB	LEU	D	361	2.667	86.106	41.229	1.00	25.08	C
ATOM	12719	CG	LEU	D	361	2.713	85.137	40.050	1.00	24.81	C
ATOM	12720	CD1	LEU	D	361	2.920	85.890	38.720	1.00	26.89	C
ATOM	12721	CD2	LEU	D	361	3.861	84.142	40.286	1.00	26.34	C
ATOM	12722	N	ALA	D	362	-0.297	85.671	41.967	1.00	25.66	N
ATOM	12723	CA	ALA	D	362	-1.543	84.925	41.781	1.00	27.02	C
ATOM	12724	C	ALA	D	362	-2.696	85.873	41.436	1.00	28.35	C
ATOM	12725	O	ALA	D	362	-3.595	85.514	40.650	1.00	27.59	O
ATOM	12726	CB	ALA	D	362	-1.906	84.075	43.054	1.00	24.97	C
ATOM	12727	N	TYR	D	363	-2.682	87.075	42.017	1.00	28.40	N
ATOM	12728	CA	TYR	D	363	-3.755	88.011	41.727	1.00	29.44	C
ATOM	12729	C	TYR	D	363	-3.747	88.374	40.234	1.00	28.67	C
ATOM	12730	O	TYR	D	363	-4.761	88.248	39.539	1.00	28.76	O
ATOM	12731	CB	TYR	D	363	-3.618	89.281	42.565	1.00	31.54	C
ATOM	12732	CG	TYR	D	363	-4.742	90.237	42.286	1.00	35.10	C
ATOM	12733	CD1	TYR	D	363	-6.010	90.042	42.860	1.00	35.54	C
ATOM	12734	CD2	TYR	D	363	-4.572	91.287	41.377	1.00	35.75	C
ATOM	12735	CE1	TYR	D	363	-7.082	90.868	42.532	1.00	37.76	C
ATOM	12736	CE2	TYR	D	363	-5.645	92.122	41.037	1.00	37.17	C
ATOM	12737	CZ	TYR	D	363	-6.886	91.906	41.614	1.00	37.83	C
ATOM	12738	OH	TYR	D	363	-7.938	92.714	41.257	1.00	39.55	O
ATOM	12739	N	GLY	D	364	-2.594	88.805	39.744	1.00	27.06	N
ATOM	12740	CA	GLY	D	364	-2.488	89.165	38.344	1.00	27.43	C
ATOM	12741	C	GLY	D	364	-2.764	87.999	37.414	1.00	28.87	C
ATOM	12742	O	GLY	D	364	-3.367	88.176	36.332	1.00	28.06	O
ATOM	12743	N	TYR	D	365	-2.333	86.804	37.827	1.00	27.31	N
ATOM	12744	CA	TYR	D	365	-2.534	85.572	37.044	1.00	25.98	C
ATOM	12745	C	TYR	D	365	-4.025	85.212	36.931	1.00	25.41	C
ATOM	12746	O	TYR	D	365	-4.492	84.768	35.871	1.00	25.61	O
ATOM	12747	CB	TYR	D	365	-1.756	84.425	37.724	1.00	27.06	C
ATOM	12748	CG	TYR	D	365	-1.790	83.065	37.038	1.00	26.25	C
ATOM	12749	CD1	TYR	D	365	-1.102	82.845	35.840	1.00	27.92	C
ATOM	12750	CD2	TYR	D	365	-2.441	81.978	37.639	1.00	27.89	C
ATOM	12751	CE1	TYR	D	365	-1.043	81.569	35.250	1.00	28.00	C
ATOM	12752	CE2	TYR	D	365	-2.400	80.709	37.064	1.00	27.49	C
ATOM	12753	CZ	TYR	D	365	-1.692	80.504	35.864	1.00	30.33	C
ATOM	12754	OH									



ATOM	12794	N	SER	D	371	0.390	87.019	31.068	1.00	27.90	N
ATOM	12795	CA	SER	D	371	0.982	88.360	31.120	1.00	29.28	C
ATOM	12796	C	SER	D	371	1.565	88.664	32.502	1.00	28.71	C
ATOM	12797	O	SER	D	371	2.660	89.240	32.625	1.00	29.11	O
ATOM	12798	CB	SER	D	371	-0.076	89.411	30.770	1.00	30.16	C
ATOM	12799	OG	SER	D	371	-0.666	89.109	29.505	1.00	30.51	O
ATOM	12800	N	ALA	D	372	0.837	88.270	33.545	1.00	27.88	N
ATOM	12801	CA	ALA	D	372	1.303	88.530	34.902	1.00	27.48	C
ATOM	12802	C	ALA	D	372	2.617	87.809	35.173	1.00	27.81	C
ATOM	12803	O	ALA	D	372	3.494	88.349	35.816	1.00	26.26	O
ATOM	12804	CB	ALA	D	372	0.229	88.116	35.942	1.00	25.66	C
ATOM	12805	N	TYR	D	373	2.773	86.581	34.687	1.00	27.93	N
ATOM	12806	CA	TYR	D	373	4.034	85.905	34.963	1.00	28.10	C
ATOM	12807	C	TYR	D	373	5.156	86.522	34.160	1.00	27.28	C
ATOM	12808	O	TYR	D	373	6.273	86.649	34.634	1.00	27.17	O
ATOM	12809	CB	TYR	D	373	3.985	84.421	34.642	1.00	27.48	C
ATOM	12810	CG	TYR	D	373	5.238	83.734	35.131	1.00	26.23	C
ATOM	12811	CD1	TYR	D	373	5.367	83.365	36.472	1.00	25.31	C
ATOM	12812	CD2	TYR	D	373	6.342	83.593	34.298	1.00	25.71	C
ATOM	12813	CE1	TYR	D	373	6.563	82.892	36.964	1.00	24.52	C
ATOM	12814	CE2	TYR	D	373	7.538	83.128	34.777	1.00	24.97	C
ATOM	12815	CZ	TYR	D	373	7.646	82.783	36.113	1.00	24.49	C
ATOM	12816	OH	TYR	D	373	8.864	82.362	36.610	1.00	24.39	O
ATOM	12817	N	VAL	D	374	4.878	86.871	32.913	1.00	28.33	N
ATOM	12818	CA	VAL	D	374	5.916	87.480	32.086	1.00	27.27	C
ATOM	12819	C	VAL	D	374	6.418	88.791	32.719	1.00	28.19	C
ATOM	12820	O	VAL	D	374	7.583	89.131	32.592	1.00	26.28	O
ATOM	12821	CB	VAL	D	374	5.386	87.727	30.670	1.00	28.99	C
ATOM	12822	CG1	VAL	D	374	6.465	88.407	29.797	1.00	26.44	C
ATOM	12823	CG2	VAL	D	374	4.950	86.367	30.065	1.00	25.72	C
ATOM	12824	N	GLU	D	375	5.535	89.525	33.393	1.00	29.69	N
ATOM	12825	CA	GLU	D	375	5.958	90.764	34.068	1.00	31.72	C
ATOM	12826	C	GLU	D	375	7.024	90.403	35.092	1.00	31.13	C
ATOM	12827	O	GLU	D	375	8.057	91.087	35.224	1.00	30.02	O
ATOM	12828	CB	GLU	D	375	4.772	91.424	34.755	1.00	33.58	C
ATOM	12829	CG	GLU	D	375	3.778	91.996	33.755	1.00	38.10	C
ATOM	12830	CD	GLU	D	375	2.487	92.493	34.394	1.00	41.06	C
ATOM	12831	OE1	GLU	D	375	2.484	92.787	35.621	1.00	40.77	O
ATOM	12832	OE2	GLU	D	375	1.476	92.605	33.646	1.00	42.61	O
ATOM	12833	N	LEU	D	376	6.795	89.301	35.806	1.00	30.38	N
ATOM	12834	CA	LEU	D	376	7.776	88.858	36.782	1.00	27.57	C
ATOM	12835	C	LEU	D	376	9.060	88.387	36.081	1.00	27.70	C
ATOM	12836	O	LEU	D	376	10.150	88.780	36.468	1.00	25.29	O
ATOM	12837	CB	LEU	D	376	7.189	87.742	37.653	1.00	27.61	C
ATOM	12838	CG	LEU	D	376	8.179	86.916	38.497	1.00	27.20	C
ATOM	12839	CD1	LEU	D	376	9.099	87.789	39.313	1.00	24.96	C
ATOM	12840	CD2	LEU	D	376	7.328	86.013	39.427	1.00	27.44	C
ATOM	12841	N	GLN	D	377	8.953	87.560	35.039	1.00	28.55	N
ATOM	12842	CA	GLN	D	377	10.174	87.110	34.377	1.00	29.11	C
ATOM	12843	C	GLN	D	377	11.035	88.275	33.881	1.00	30.19	C
ATOM	12844	O	GLN	D	377	12.263	88.227	33.938	1.00	30.28	O
ATOM	12845	CB	GLN	D	377	9.865	86.183	33.196	1.00	28.68	C
ATOM	12846	CG	GLN	D	377	11.124	85.480	32.672	1.00	28.69	C
ATOM	12847	CD	GLN	D	377	10.822	84.365	31.667	1.00	31.97	C
ATOM	12848	OE1	GLN	D	377	11.327	83.231	31.804	1.00	32.87	O
ATOM	12849	NE2	GLN	D	377	9.998	84.672	30.654	1.00	29.90	N
ATOM	12850	N	GLU	D	378	10.387	89.321	33.378	1.00	30.84	N
ATOM	12851	CA	GLU	D	378	11.133	90.475	32.885	1.00	31.10	C
ATOM	12852	C	GLU	D	378	11.831	91.232	34.029	1.00	30.73	C
ATOM	12853	O	GLU	D	378	12.960	91.724	33.856	1.00	29.44	O
ATOM	12854	CB	GLU	D	378	10.208	91.387	32.092	1.00	31.82	C
ATOM	12855	CG	GLU	D	378	9.666	90.735	30.819	1.00	33.02	C
ATOM	12856	CD	GLU	D	378	10.746	90.473	29.773	1.00	33.29	C
ATOM	12857	OE1	GLU	D	378	11.489	91.425	29.433	1.00	32.88	O
ATOM	12858	OE2	GLU	D	378	10.852	89.322	29.279	1.00	30.72	O
ATOM	12859	N	ARG	D	379	11.176	91.317	35.191	1.00	30.30	N
ATOM	12860	CA	ARG	D	379	11.812	91.955	36.340	1.00	30.82	C
ATOM	12861	C	ARG	D	379	13.057	91.150	36.697	1.00	30.40	C
ATOM	12862	O	ARG	D	379	14.100	91.720	36.999	1.00	28.66	O
ATOM	12863	CB	ARG	D	379	10.887	92.013	37.557	1.00	33.33	C
ATOM	12864	CG	ARG	D	379	9.831	93.088	37.473	1.00	35.72	C
ATOM	12865	CD	ARG	D	379	9.256	93.396	38.840	1.00	38.87	C
ATOM	12866	NE	ARG	D	379	8.452	92.304	39.386	1.00	41.66	N
ATOM	12867	CZ	ARG	D	379	7.250	91.955	38.938	1.00	43.29	C
ATOM	12868	NH1	ARG	D	379	6.703	92.608	37.917	1.00	45.39	N
ATOM	12869	NH2	ARG	D	379	6.573	90.970	39.529	1.00	44.13	N
ATOM	12870	N	GLU	D	380	12.963	89.818	36.662	1.00	28.80	N
ATOM	12871	CA	GLU	D	380	14.142	89.015	36.975	1.00	28.31	C
ATOM	12872	C	GLU	D	380	15.264	89.246	35.968	1.00	27.73	C
ATOM	12873	O	GLU	D	380	16.447	89.295	36.328	1.00	26.36	O



ATOM	12874	CB	GLU	D	380	13.795	87.528	37.014	1.00	28.55	C
ATOM	12875	CG	GLU	D	380	12.868	87.166	38.130	1.00	27.41	C
ATOM	12876	CD	GLU	D	380	12.560	85.682	38.115	1.00	27.95	C
ATOM	12877	OE1	GLU	D	380	11.722	85.268	37.289	1.00	28.42	O
ATOM	12878	OE2	GLU	D	380	13.164	84.936	38.905	1.00	24.76	O
ATOM	12879	N	PHE	D	381	14.894	89.354	34.698	1.00	28.35	N
ATOM	12880	CA	PHE	D	381	15.890	89.625	33.655	1.00	30.32	C
ATOM	12881	C	PHE	D	381	16.532	90.993	33.945	1.00	29.92	C
ATOM	12882	O	PHE	D	381	17.746	91.163	33.896	1.00	28.39	O
ATOM	12883	CB	PHE	D	381	15.213	89.633	32.277	1.00	30.91	C
ATOM	12884	CG	PHE	D	381	15.104	88.264	31.660	1.00	32.14	C
ATOM	12885	CD1	PHE	D	381	16.220	87.413	31.622	1.00	33.00	C
ATOM	12886	CD2	PHE	D	381	13.914	87.822	31.115	1.00	32.71	C
ATOM	12887	CE1	PHE	D	381	16.139	86.139	31.047	1.00	32.41	C
ATOM	12888	CE2	PHE	D	381	13.823	86.546	30.536	1.00	32.35	C
ATOM	12889	CZ	PHE	D	381	14.937	85.706	30.504	1.00	32.36	C
ATOM	12890	N	ALA	D	382	15.679	91.950	34.264	1.00	30.87	N
ATOM	12891	CA	ALA	D	382	16.126	93.293	34.578	1.00	33.11	C
ATOM	12892	C	ALA	D	382	17.090	93.246	35.774	1.00	34.90	C
ATOM	12893	O	ALA	D	382	18.225	93.752	35.707	1.00	35.65	O
ATOM	12894	CB	ALA	D	382	14.910	94.164	34.887	1.00	33.73	C
ATOM	12895	N	ALA	D	383	16.668	92.587	36.851	1.00	34.01	N
ATOM	12896	CA	ALA	D	383	17.491	92.507	38.044	1.00	34.14	C
ATOM	12897	C	ALA	D	383	18.851	91.828	37.876	1.00	34.56	C
ATOM	12898	O	ALA	D	383	19.647	91.815	38.806	1.00	34.58	O
ATOM	12899	CB	ALA	D	383	16.712	91.826	39.143	1.00	35.28	C
ATOM	12900	N	GLU	D	384	19.132	91.276	36.704	1.00	35.63	N
ATOM	12901	CA	GLU	D	384	20.407	90.595	36.512	1.00	37.68	C
ATOM	12902	C	GLU	D	384	21.592	91.565	36.554	1.00	39.50	C
ATOM	12903	O	GLU	D	384	22.723	91.175	36.842	1.00	38.34	O
ATOM	12904	CB	GLU	D	384	20.379	89.805	35.201	1.00	39.53	C
ATOM	12905	CG	GLU	D	384	19.162	88.846	35.079	1.00	42.33	C
ATOM	12906	CD	GLU	D	384	19.332	87.749	34.002	1.00	43.90	C
ATOM	12907	OE1	GLU	D	384	20.042	87.985	33.001	1.00	43.74	O
ATOM	12908	OE2	GLU	D	384	18.732	86.648	34.154	1.00	44.99	O
ATOM	12909	N	GLU	D	385	21.330	92.835	36.268	1.00	41.16	N
ATOM	12910	CA	GLU	D	385	22.397	93.829	36.304	1.00	43.28	C
ATOM	12911	C	GLU	D	385	22.765	94.122	37.755	1.00	42.98	C
ATOM	12912	O	GLU	D	385	23.832	94.681	38.024	1.00	43.09	O
ATOM	12913	CB	GLU	D	385	21.962	95.114	35.592	1.00	45.23	C
ATOM	12914	CG	GLU	D	385	20.618	95.663	36.048	1.00	48.76	C
ATOM	12915	CD	GLU	D	385	19.761	96.142	34.878	1.00	51.75	C
ATOM	12916	OE1	GLU	D	385	20.179	95.974	33.706	1.00	52.47	O
ATOM	12917	OE2	GLU	D	385	18.658	96.679	35.135	1.00	53.26	O
ATOM	12918	N	ARG	D	386	21.888	93.737	38.687	1.00	41.55	N
ATOM	12919	CA	ARG	D	386	22.153	93.945	40.114	1.00	41.09	C
ATOM	12920	C	ARG	D	386	22.903	92.751	40.713	1.00	39.79	C
ATOM	12921	O	ARG	D	386	23.397	92.805	41.845	1.00	39.49	O
ATOM	12922	CB	ARG	D	386	20.847	94.170	40.887	1.00	42.46	C
ATOM	12923	CG	ARG	D	386	20.234	95.553	40.713	1.00	43.40	C
ATOM	12924	CD	ARG	D	386	19.072	95.752	41.649	1.00	45.37	C
ATOM	12925	NE	ARG	D	386	17.870	95.047	41.216	1.00	46.93	N
ATOM	12926	CZ	ARG	D	386	16.894	94.670	42.039	1.00	48.29	C
ATOM	12927	NH1	ARG	D	386	16.991	94.917	43.339	1.00	49.13	N
ATOM	12928	NH2	ARG	D	386	15.801	94.087	41.565	1.00	48.81	N
ATOM	12929	N	GLY	D	387	22.980	91.661	39.956	1.00	37.92	N
ATOM	12930	CA	GLY	D	387	23.687	90.495	40.446	1.00	34.78	C
ATOM	12931	C	GLY	D	387	22.813	89.252	40.526	1.00	33.32	C
ATOM	12932	O	GLY	D	387	23.343	88.143	40.696	1.00	32.34	O
ATOM	12933	N	TYR	D	388	21.497	89.443	40.403	1.00	30.94	N
ATOM	12934	CA	TYR	D	388	20.510	88.356	40.466	1.00	29.72	C
ATOM	12935	C	TYR	D	388	20.878	87.272	39.471	1.00	28.60	C
ATOM	12936	O	TYR	D	388	21.297	87.556	38.353	1.00	28.02	O
ATOM	12937	CB	TYR	D	388	19.119	88.909	40.172	1.00	30.58	C
ATOM	12938	CG	TYR	D	388	17.975	87.938	40.374	1.00	31.25	C
ATOM	12939	CD1	TYR	D	388	17.654	87.452	41.656	1.00	30.12	C
ATOM	12940	CD2	TYR	D	388	17.176	87.532	39.291	1.00	30.81	C
ATOM	12941	CE1	TYR	D	388	16.565	86.590	41.856	1.00	30.28	C
ATOM	12942	CE2	TYR	D	388	16.087	86.670	39.487	1.00	30.92	C
ATOM	12943	CZ	TYR	D	388	15.790	86.204	40.777	1.00	30.38	C
ATOM	12944	OH	TYR	D	388	14.715	85.352	40.959	1.00	29.37	O
ATOM	12945	N	THR	D	389	20.722	86.020	39.872	1.00	27.81	N
ATOM	12946	CA	THR	D	389	21.103	84.911	39.002	1.00	27.06	C
ATOM	12947	C	THR	D	389	20.087	83.784	38.884	1.00	25.64	C
ATOM	12948	O	THR	D	389	20.275	82.863	38.089	1.00	24.32	O
ATOM	12949	CB	THR	D	389	22.473	84.305	39.458	1.00	28.10	C
ATOM	12950	OG1	THR	D	389	22.360	83.718	40.774	1.00	28.70	O
ATOM	12951	CG2	THR	D	389	23.528	85.414	39.526	1.00	27.72	C
ATOM	12952	N	ALA	D	390	19.001	83.865	39.649	1.00	24.81	N
ATOM	12953	CA	ALA	D	390	17.995	82.799	39.625	1.00	25.44	C



ATOM	12954	C	ALA	D	390	17.055	82.732	38.397	1.00	26.10	C
ATOM	12955	O	ALA	D	390	16.190	81.852	38.306	1.00	26.25	O
ATOM	12956	CB	ALA	D	390	17.188	82.846	40.914	1.00	23.09	C
ATOM	12957	N	THR	D	391	17.198	83.655	37.449	1.00	26.76	N
ATOM	12958	CA	THR	D	391	16.353	83.600	36.264	1.00	27.37	C
ATOM	12959	C	THR	D	391	16.798	82.303	35.559	1.00	25.80	C
ATOM	12960	O	THR	D	391	16.004	81.597	34.935	1.00	28.19	O
ATOM	12961	CB	THR	D	391	16.585	84.831	35.337	1.00	29.29	C
ATOM	12962	OG1	THR	D	391	16.596	86.039	36.116	1.00	29.94	O
ATOM	12963	CG2	THR	D	391	15.458	84.935	34.351	1.00	31.24	C
ATOM	12964	N	LYS	D	392	18.080	81.992	35.685	1.00	24.26	N
ATOM	12965	CA	LYS	D	392	18.628	80.784	35.107	1.00	25.91	C
ATOM	12966	C	LYS	D	392	18.517	79.741	36.207	1.00	23.72	C
ATOM	12967	O	LYS	D	392	19.512	79.308	36.760	1.00	22.85	O
ATOM	12968	CB	LYS	D	392	20.084	80.983	34.751	1.00	26.76	C
ATOM	12969	CG	LYS	D	392	20.273	81.954	33.589	1.00	32.05	C
ATOM	12970	CD	LYS	D	392	21.035	81.299	32.463	1.00	34.74	C
ATOM	12971	CE	LYS	D	392	22.438	80.936	32.907	1.00	37.01	C
ATOM	12972	NZ	LYS	D	392	23.169	80.142	31.881	1.00	38.89	N
ATOM	12973	N	HIS	D	393	17.281	79.362	36.507	1.00	22.94	N
ATOM	12974	CA	HIS	D	393	17.006	78.411	37.578	1.00	23.26	C
ATOM	12975	C	HIS	D	393	17.726	77.045	37.600	1.00	22.59	C
ATOM	12976	O	HIS	D	393	17.990	76.534	38.693	1.00	22.00	O
ATOM	12977	CB	HIS	D	393	15.483	78.238	37.688	1.00	23.64	C
ATOM	12978	CG	HIS	D	393	14.817	77.804	36.418	1.00	24.79	C
ATOM	12979	ND1	HIS	D	393	13.669	78.408	35.933	1.00	25.00	N
ATOM	12980	CD2	HIS	D	393	15.093	76.782	35.565	1.00	26.54	C
ATOM	12981	CE1	HIS	D	393	13.268	77.776	34.841	1.00	26.07	C
ATOM	12982	NE2	HIS	D	393	14.116	76.787	34.593	1.00	26.50	N
ATOM	12983	N	GLN	D	394	18.066	76.449	36.446	1.00	22.44	N
ATOM	12984	CA	GLN	D	394	18.737	75.138	36.469	1.00	22.34	C
ATOM	12985	C	GLN	D	394	20.136	75.201	37.125	1.00	24.06	C
ATOM	12986	O	GLN	D	394	20.459	74.442	38.051	1.00	23.02	O
ATOM	12987	CB	GLN	D	394	18.885	74.519	35.056	1.00	22.94	C
ATOM	12988	CG	GLN	D	394	17.639	74.471	34.165	1.00	22.66	C
ATOM	12989	CD	GLN	D	394	16.555	73.524	34.683	1.00	22.21	C
ATOM	12990	OE1	GLN	D	394	16.626	73.038	35.812	1.00	19.80	O
ATOM	12991	NE2	GLN	D	394	15.524	73.298	33.862	1.00	22.20	N
ATOM	12992	N	ARG	D	395	20.993	76.100	36.643	1.00	22.90	N
ATOM	12993	CA	ARG	D	395	22.319	76.200	37.253	1.00	21.99	C
ATOM	12994	C	ARG	D	395	22.185	76.706	38.702	1.00	19.41	C
ATOM	12995	O	ARG	D	395	22.992	76.379	39.548	1.00	21.33	O
ATOM	12996	CB	ARG	D	395	23.187	77.193	36.464	1.00	22.32	C
ATOM	12997	CG	ARG	D	395	22.516	78.564	36.288	1.00	25.01	C
ATOM	12998	CD	ARG	D	395	23.574	79.693	36.282	1.00	23.96	C
ATOM	12999	NE	ARG	D	395	24.140	79.868	37.625	1.00	26.28	N
ATOM	13000	CZ	ARG	D	395	23.462	80.323	38.681	1.00	25.83	C
ATOM	13001	NH1	ARG	D	395	22.176	80.676	38.578	1.00	26.16	N
ATOM	13002	NH2	ARG	D	395	24.058	80.403	39.868	1.00	27.08	N
ATOM	13003	N	GLU	D	396	21.163	77.500	38.986	1.00	21.63	N
ATOM	13004	CA	GLU	D	396	20.985	78.053	40.325	1.00	20.60	C
ATOM	13005	C	GLU	D	396	20.862	76.963	41.370	1.00	22.11	C
ATOM	13006	O	GLU	D	396	21.388	77.090	42.473	1.00	22.03	O
ATOM	13007	CB	GLU	D	396	19.751	78.946	40.386	1.00	21.65	C
ATOM	13008	CG	GLU	D	396	19.483	79.655	41.714	1.00	22.73	C
ATOM	13009	CD	GLU	D	396	20.288	80.957	41.950	1.00	27.16	C
ATOM	13010	OE1	GLU	D	396	20.926	81.482	41.010	1.00	27.97	O
ATOM	13011	OE2	GLU	D	396	20.256	81.471	43.093	1.00	27.80	O
ATOM	13012	N	VAL	D	397	20.138	75.906	41.021	1.00	21.24	N
ATOM	13013	CA	VAL	D	397	19.933	74.813	41.953	1.00	21.19	C
ATOM	13014	C	VAL	D	397	20.945	73.665	41.785	1.00	19.08	C
ATOM	13015	O	VAL	D	397	20.811	72.618	42.406	1.00	22.07	O
ATOM	13016	CB	VAL	D	397	18.483	74.325	41.840	1.00	20.08	C
ATOM	13017	CG1	VAL	D	397	18.215	73.835	40.437	1.00	19.07	C
ATOM	13018	CG2	VAL	D	397	18.255	73.200	42.833	1.00	25.10	C
ATOM	13019	N	GLY	D	398	21.999	73.896	40.997	1.00	19.43	N
ATOM	13020	CA	GLY	D	398	23.044	72.897	40.813	1.00	15.65	C
ATOM	13021	C	GLY	D	398	23.059	71.899	39.649	1.00	18.77	C
ATOM	13022	O	GLY	D	398	23.822	70.934	39.678	1.00	15.76	O
ATOM	13023	N	ALA	D	399	22.237	72.095	38.618	1.00	18.94	N
ATOM	13024	CA	ALA	D	399	22.269	71.174	37.480	1.00	18.42	C
ATOM	13025	C	ALA	D	399	23.680	71.079	36.960	1.00	19.69	C
ATOM	13026	O	ALA	D	399	24.135	70.033	36.528	1.00	18.00	O
ATOM	13027	CB	ALA	D	399	21.369	71.675	36.366	1.00	18.34	C
ATOM	13028	N	GLY	D	400	24.406	72.193	36.986	1.00	20.06	N
ATOM	13029	CA	GLY	D	400	25.766	72.113	36.466	1.00	20.21	C
ATOM	13030	C	GLY	D	400	26.751	71.430	37.392	1.00	20.30	C
ATOM	13031	O	GLY	D	400	27.733	70.787	36.957	1.00	20.35	O
ATOM	13032	N	TYR	D	401	26.501	71.562	38.690	1.00	20.50	N
ATOM	13033	CA	TYR	D	401	27.373	70.931	39.664	1.00	21.03	C



ATOM	13034	C	TYR	D	401	27.212	69.425	39.552	1.00	21.20	C
ATOM	13035	O	TYR	D	401	28.175	68.660	39.541	1.00	21.11	O
ATOM	13036	CB	TYR	D	401	26.986	71.395	41.054	1.00	22.02	C
ATOM	13037	CG	TYR	D	401	27.796	70.730	42.123	1.00	22.36	C
ATOM	13038	CD1	TYR	D	401	29.150	71.077	42.336	1.00	22.17	C
ATOM	13039	CD2	TYR	D	401	27.230	69.753	42.924	1.00	20.89	C
ATOM	13040	CE1	TYR	D	401	29.911	70.455	43.344	1.00	21.95	C
ATOM	13041	CE2	TYR	D	401	27.966	69.110	43.921	1.00	22.63	C
ATOM	13042	CZ	TYR	D	401	29.306	69.463	44.136	1.00	24.28	C
ATOM	13043	OH	TYR	D	401	29.991	68.819	45.131	1.00	24.30	O
ATOM	13044	N	PHE	D	402	25.961	68.995	39.464	1.00	20.85	N
ATOM	13045	CA	PHE	D	402	25.712	67.571	39.343	1.00	20.96	C
ATOM	13046	C	PHE	D	402	26.180	67.001	37.995	1.00	18.53	C
ATOM	13047	O	PHE	D	402	26.621	65.862	37.926	1.00	18.41	O
ATOM	13048	CB	PHE	D	402	24.232	67.315	39.649	1.00	19.47	C
ATOM	13049	CG	PHE	D	402	23.968	67.255	41.130	1.00	18.51	C
ATOM	13050	CD1	PHE	D	402	24.164	66.055	41.825	1.00	18.01	C
ATOM	13051	CD2	PHE	D	402	23.639	68.395	41.849	1.00	18.86	C
ATOM	13052	CE1	PHE	D	402	24.040	66.004	43.213	1.00	17.24	C
ATOM	13053	CE2	PHE	D	402	23.513	68.348	43.250	1.00	17.21	C
ATOM	13054	CZ	PHE	D	402	23.718	67.146	43.923	1.00	17.35	C
ATOM	13055	N	ASP	D	403	26.123	67.804	36.943	1.00	20.28	N
ATOM	13056	CA	ASP	D	403	26.645	67.340	35.672	1.00	22.10	C
ATOM	13057	C	ASP	D	403	28.155	67.059	35.899	1.00	21.27	O
ATOM	13058	O	ASP	D	403	28.701	66.124	35.347	1.00	21.30	O
ATOM	13059	CB	ASP	D	403	26.485	68.414	34.589	1.00	21.90	C
ATOM	13060	CG	ASP	D	403	25.151	68.319	33.853	1.00	25.04	C
ATOM	13061	OD1	ASP	D	403	24.379	67.342	34.096	1.00	23.49	O
ATOM	13062	OD2	ASP	D	403	24.890	69.225	33.030	1.00	24.32	O
ATOM	13063	N	ARG	D	404	28.814	67.877	36.722	1.00	22.15	N
ATOM	13064	CA	ARG	D	404	30.256	67.679	36.965	1.00	22.34	C
ATOM	13065	C	ARG	D	404	30.524	66.379	37.691	1.00	21.62	C
ATOM	13066	O	ARG	D	404	31.456	65.647	37.386	1.00	20.46	O
ATOM	13067	CB	ARG	D	404	30.857	68.851	37.750	1.00	26.96	C
ATOM	13068	CG	ARG	D	404	32.354	68.638	38.038	1.00	31.59	C
ATOM	13069	CD	ARG	D	404	33.183	68.730	36.770	1.00	35.90	C
ATOM	13070	NE	ARG	D	404	33.672	70.094	36.578	1.00	41.18	N
ATOM	13071	CZ	ARG	D	404	34.811	70.562	37.096	1.00	41.54	C
ATOM	13072	NH1	ARG	D	404	35.591	69.776	37.830	1.00	41.38	N
ATOM	13073	NH2	ARG	D	404	35.159	71.823	36.893	1.00	42.09	N
ATOM	13074	N	ILE	D	405	29.702	66.087	38.700	1.00	22.45	N
ATOM	13075	CA	ILE	D	405	29.838	64.833	39.396	1.00	19.30	C
ATOM	13076	C	ILE	D	405	29.592	63.691	38.394	1.00	20.43	C
ATOM	13077	O	ILE	D	405	30.270	62.666	38.417	1.00	20.85	O
ATOM	13078	CB	ILE	D	405	28.753	64.705	40.505	1.00	19.72	C
ATOM	13079	CG1	ILE	D	405	28.910	65.827	41.550	1.00	19.59	C
ATOM	13080	CG2	ILE	D	405	28.770	63.287	41.070	1.00	19.34	C
ATOM	13081	CD1	ILE	D	405	28.074	65.608	42.811	1.00	19.79	C
ATOM	13082	N	ALA	D	406	28.569	63.833	37.548	1.00	21.35	N
ATOM	13083	CA	ALA	D	406	28.276	62.740	36.606	1.00	22.19	C
ATOM	13084	C	ALA	D	406	29.461	62.505	35.683	1.00	21.86	C
ATOM	13085	O	ALA	D	406	29.862	61.366	35.455	1.00	21.70	O
ATOM	13086	CB	ALA	D	406	27.031	63.049	35.776	1.00	19.91	C
ATOM	13087	N	THR	D	407	30.028	63.587	35.163	1.00	23.80	N
ATOM	13088	CA	THR	D	407	31.167	63.411	34.272	1.00	25.38	C
ATOM	13089	C	THR	D	407	32.447	63.032	34.989	1.00	25.29	C
ATOM	13090	O	THR	D	407	33.369	62.485	34.382	1.00	26.10	O
ATOM	13091	CB	THR	D	407	31.374	64.626	33.334	1.00	25.68	C
ATOM	13092	OG1	THR	D	407	31.366	65.873	34.052	1.00	24.55	O
ATOM	13093	CG2	THR	D	407	30.243	64.653	32.319	1.00	26.65	C
ATOM	13094	N	THR	D	408	32.503	63.233	36.298	1.00	25.99	N
ATOM	13095	CA	THR	D	408	33.717	62.830	37.004	1.00	24.62	C
ATOM	13096	C	THR	D	408	33.644	61.337	37.140	1.00	25.20	C
ATOM	13097	O	THR	D	408	34.654	60.631	37.074	1.00	25.55	O
ATOM	13098	CB	THR	D	408	33.830	63.478	38.385	1.00	22.85	C
ATOM	13099	OG1	THR	D	408	33.928	64.888	38.231	1.00	25.77	O
ATOM	13100	CG2	THR	D	408	35.067	62.998	39.101	1.00	26.29	C
ATOM	13101	N	VAL	D	409	32.426	60.835	37.328	1.00	24.62	N
ATOM	13102	CA	VAL	D	409	32.235	59.405	37.450	1.00	23.03	C
ATOM	13103	C	VAL	D	409	32.332	58.724	36.076	1.00	23.89	C
ATOM	13104	O	VAL	D	409	32.793	57.589	35.961	1.00	24.52	O
ATOM	13105	CB	VAL	D	409	30.855	59.092	38.033	1.00	22.74	C
ATOM	13106	CG1	VAL	D	409	30.664	57.603	38.061	1.00	23.40	C
ATOM	13107	CG2	VAL	D	409	30.723	59.678	39.433	1.00	21.50	C
ATOM	13108	N	ASP	D	410	31.880	59.405	35.038	1.00	25.28	N
ATOM	13109	CA	ASP	D	410	31.927	58.807	33.693	1.00	27.64	C
ATOM	13110	C	ASP	D	410	31.908	59.943	32.716	1.00	27.14	C
ATOM	13111	O	ASP	D	410	30.854	60.485	32.397	1.00	27.05	O
ATOM	13112	CB	ASP	D	410	30.725	57.874	33.489	1.00	29.68	C
ATOM	13113	CG	ASP	D	410	30.541	57.445	32.032	1.00	32.47	C



ATOM	13114	OD1	ASP	D	410	31.444	57.697	31.182	1.00	32.39	O
ATOM	13115	OD2	ASP	D	410	29.470	56.842	31.752	1.00	34.33	O
ATOM	13116	N	PRO	D	411	33.101	60.348	32.232	1.00	28.46	N
ATOM	13117	CA	PRO	D	411	33.163	61.469	31.280	1.00	29.13	C
ATOM	13118	C	PRO	D	411	32.323	61.259	30.019	1.00	29.97	C
ATOM	13119	O	PRO	D	411	31.914	62.223	29.365	1.00	30.36	O
ATOM	13120	CB	PRO	D	411	34.667	61.627	30.978	1.00	28.71	C
ATOM	13121	CG	PRO	D	411	35.324	60.355	31.532	1.00	29.69	C
ATOM	13122	CD	PRO	D	411	34.441	59.871	32.643	1.00	29.29	C
ATOM	13123	N	ASN	D	412	32.044	59.999	29.705	1.00	29.24	N
ATOM	13124	CA	ASN	D	412	31.268	59.676	28.512	1.00	30.83	C
ATOM	13125	C	ASN	D	412	29.764	59.515	28.694	1.00	30.08	C
ATOM	13126	O	ASN	D	412	29.070	59.168	27.749	1.00	30.17	O
ATOM	13127	CB	ASN	D	412	31.847	58.426	27.857	1.00	32.41	C
ATOM	13128	CG	ASN	D	412	33.265	58.646	27.416	1.00	35.16	C
ATOM	13129	OD1	ASN	D	412	33.564	59.671	26.787	1.00	36.54	O
ATOM	13130	ND2	ASN	D	412	34.156	57.715	27.742	1.00	36.69	N
ATOM	13131	N	SER	D	413	29.255	59.786	29.889	1.00	29.20	N
ATOM	13132	CA	SER	D	413	27.827	59.643	30.114	1.00	27.97	C
ATOM	13133	C	SER	D	413	26.985	60.426	29.100	1.00	28.62	C
ATOM	13134	O	SER	D	413	27.264	61.593	28.798	1.00	26.98	O
ATOM	13135	CB	SER	D	413	27.463	60.114	31.521	1.00	29.40	C
ATOM	13136	OG	SER	D	413	26.122	60.575	31.552	1.00	27.01	O
ATOM	13137	N	SER	D	414	25.928	59.782	28.598	1.00	28.46	N
ATOM	13138	CA	SER	D	414	25.056	60.429	27.631	1.00	28.73	C
ATOM	13139	C	SER	D	414	23.782	61.006	28.256	1.00	28.85	C
ATOM	13140	O	SER	D	414	22.847	61.367	27.546	1.00	28.16	O
ATOM	13141	CB	SER	D	414	24.725	59.458	26.492	1.00	28.18	C
ATOM	13142	OG	SER	D	414	24.427	58.168	26.969	1.00	30.92	O
ATOM	13143	N	THR	D	415	23.785	61.132	29.584	1.00	28.67	N
ATOM	13144	CA	THR	D	415	22.636	61.635	30.315	1.00	27.99	C
ATOM	13145	C	THR	D	415	22.887	62.865	31.200	1.00	27.32	C
ATOM	13146	O	THR	D	415	22.266	63.002	32.272	1.00	27.15	O
ATOM	13147	CB	THR	D	415	22.027	60.515	31.206	1.00	27.74	C
ATOM	13148	OG1	THR	D	415	22.953	60.148	32.237	1.00	28.80	O
ATOM	13149	CG2	THR	D	415	21.712	59.252	30.371	1.00	28.73	C
ATOM	13150	N	THR	D	416	23.782	63.755	30.779	1.00	26.62	N
ATOM	13151	CA	THR	D	416	24.041	64.953	31.571	1.00	25.44	C
ATOM	13152	C	THR	D	416	22.901	65.885	31.233	1.00	25.08	C
ATOM	13153	O	THR	D	416	22.251	65.695	30.202	1.00	26.27	O
ATOM	13154	CB	THR	D	416	25.399	65.601	31.234	1.00	25.73	C
ATOM	13155	OG1	THR	D	416	25.440	65.939	29.844	1.00	29.27	O
ATOM	13156	CG2	THR	D	416	26.511	64.651	31.556	1.00	26.31	C
ATOM	13157	N	ALA	D	417	22.685	66.897	32.068	1.00	24.24	N
ATOM	13158	CA	ALA	D	417	21.539	67.800	31.981	1.00	25.98	C
ATOM	13159	C	ALA	D	417	21.547	69.158	31.304	1.00	27.83	C
ATOM	13160	O	ALA	D	417	20.563	69.506	30.645	1.00	29.79	O
ATOM	13161	CB	ALA	D	417	20.969	68.001	33.405	1.00	25.81	C
ATOM	13162	N	LEU	D	418	22.601	69.954	31.481	1.00	29.08	N
ATOM	13163	CA	LEU	D	418	22.600	71.299	30.889	1.00	28.52	C
ATOM	13164	C	LEU	D	418	22.665	71.364	29.336	1.00	28.88	C
ATOM	13165	O	LEU	D	418	22.070	72.264	28.715	1.00	28.33	O
ATOM	13166	CB	LEU	D	418	23.713	72.149	31.548	1.00	28.58	C
ATOM	13167	CG	LEU	D	418	23.417	72.497	33.024	1.00	27.15	C
ATOM	13168	CD1	LEU	D	418	24.489	73.403	33.596	1.00	27.15	C
ATOM	13169	CD2	LEU	D	418	22.038	73.173	33.136	1.00	27.32	C
ATOM	13170	N	THR	D	419	23.373	70.412	28.732	1.00	28.42	N
ATOM	13171	CA	THR	D	419	23.506	70.327	27.280	1.00	29.68	C
ATOM	13172	C	THR	D	419	22.184	69.876	26.702	1.00	30.61	C
ATOM	13173	O	THR	D	419	21.660	68.803	27.061	1.00	28.04	O
ATOM	13174	CB	THR	D	419	24.560	69.314	26.858	1.00	31.06	C
ATOM	13175	OG1	THR	D	419	25.828	69.701	27.391	1.00	31.26	O
ATOM	13176	CG2	THR	D	419	24.661	69.256	25.332	1.00	32.38	C
ATOM	13177	N	GLY	D	420	21.648	70.705	25.814	1.00	29.67	N
ATOM	13178	CA	GLY	D	420	20.381	70.384	25.202	1.00	29.89	C
ATOM	13179	C	GLY	D	420	19.235	71.022	25.958	1.00	30.12	C
ATOM	13180	O	GLY	D	420	18.093	70.934	25.510	1.00	29.28	O
ATOM	13181	N	SER	D	421	19.528	71.672	27.092	1.00	29.04	N
ATOM	13182	CA	SER	D	421	18.489	72.307	27.899	1.00	29.31	C
ATOM	13183	C	SER	D	421	17.967	73.620	27.323	1.00	29.89	C
ATOM	13184	O	SER	D	421	18.695	74.322	26.638	1.00	30.30	O
ATOM	13185	CB	SER	D	421	19.014	72.589	29.302	1.00	29.44	C
ATOM	13186	OG	SER	D	421	19.744	73.806	29.291	1.00	28.67	O
ATOM	13187	N	THR	D	422	16.714	73.969	27.622	1.00	30.38	N
ATOM	13188	CA	THR	D	422	16.178	75.224	27.130	1.00	30.13	C
ATOM	13189	C	THR	D	422	16.884	76.369	27.840	1.00	31.12	C
ATOM	13190	O	THR	D	422	16.840	77.512	27.371	1.00	30.86	O
ATOM	13191	CB	THR	D	422	14.632	75.377	27.358	1.00	30.05	C
ATOM	13192	OG1	THR	D	422	14.329	75.358	28.764	1.00	29.41	O
ATOM	13193	CG2	THR	D	422	13.869	74.276	26.626	1.00	29.44	C



ATOM	13194	N	GLU	D	423	17.539	76.082	28.970	1.00	30.84	N
ATOM	13195	CA	GLU	D	423	18.226	77.161	29.678	1.00	30.83	C
ATOM	13196	C	GLU	D	423	19.422	77.590	28.818	1.00	32.12	C
ATOM	13197	O	GLU	D	423	19.609	78.781	28.516	1.00	31.19	O
ATOM	13198	CB	GLU	D	423	18.670	76.704	31.078	1.00	28.69	C
ATOM	13199	CG	GLU	D	423	19.657	77.633	31.744	1.00	27.83	C
ATOM	13200	CD	GLU	D	423	19.648	77.512	33.254	1.00	26.10	C
ATOM	13201	OE1	GLU	D	423	18.586	77.752	33.857	1.00	29.52	O
ATOM	13202	OE2	GLU	D	423	20.694	77.182	33.835	1.00	23.55	O
ATOM	13203	N	GLU	D	424	20.202	76.604	28.399	1.00	32.40	N
ATOM	13204	CA	GLU	D	424	21.360	76.841	27.543	1.00	34.14	C
ATOM	13205	C	GLU	D	424	20.957	77.396	26.139	1.00	34.69	C
ATOM	13206	O	GLU	D	424	21.714	78.144	25.492	1.00	33.94	O
ATOM	13207	CB	GLU	D	424	22.145	75.533	27.434	1.00	34.86	C
ATOM	13208	CG	GLU	D	424	23.023	75.399	26.206	1.00	38.84	C
ATOM	13209	CD	GLU	D	424	23.716	74.053	26.149	1.00	40.68	C
ATOM	13210	OE1	GLU	D	424	24.616	73.822	26.988	1.00	42.37	O
ATOM	13211	OE2	GLU	D	424	23.349	73.225	25.279	1.00	40.23	O
ATOM	13212	N	GLY	D	425	19.755	77.071	25.676	1.00	34.98	N
ATOM	13213	CA	GLY	D	425	19.337	77.566	24.373	1.00	34.57	C
ATOM	13214	C	GLY	D	425	18.458	78.815	24.333	1.00	35.15	C
ATOM	13215	O	GLY	D	425	18.273	79.397	23.255	1.00	34.26	O
ATOM	13216	N	GLN	D	426	17.928	79.243	25.482	1.00	33.57	N
ATOM	13217	CA	GLN	D	426	17.044	80.396	25.513	1.00	33.89	C
ATOM	13218	C	GLN	D	426	17.421	81.504	26.494	1.00	35.76	C
ATOM	13219	O	GLN	D	426	16.797	82.565	26.484	1.00	35.82	O
ATOM	13220	CB	GLN	D	426	15.616	79.938	25.840	1.00	32.91	C
ATOM	13221	CG	GLN	D	426	15.083	78.871	24.879	1.00	28.49	C
ATOM	13222	CD	GLN	D	426	13.641	78.497	25.150	1.00	30.81	C
ATOM	13223	OE1	GLN	D	426	12.832	79.308	25.660	1.00	26.82	O
ATOM	13224	NE2	GLN	D	426	13.288	77.262	24.790	1.00	29.27	N
ATOM	13225	N	PHE	D	427	18.416	81.266	27.349	1.00	37.32	N
ATOM	13226	CA	PHE	D	427	18.792	82.272	28.345	1.00	38.05	C
ATOM	13227	C	PHE	D	427	20.188	82.856	28.175	1.00	38.90	C
ATOM	13228	O	PHE	D	427	20.303	84.100	28.231	1.00	40.24	O
ATOM	13229	CB	PHE	D	427	18.618	81.701	29.763	1.00	37.13	C
ATOM	13230	CG	PHE	D	427	17.181	81.507	30.152	1.00	37.97	C
ATOM	13231	CD1	PHE	D	427	16.392	80.565	29.489	1.00	38.12	C
ATOM	13232	CD2	PHE	D	427	16.597	82.293	31.137	1.00	37.45	C
ATOM	13233	CE1	PHE	D	427	15.031	80.416	29.800	1.00	38.31	C
ATOM	13234	CE2	PHE	D	427	15.233	82.156	31.465	1.00	37.42	C
ATOM	13235	CZ	PHE	D	427	14.449	81.215	30.793	1.00	38.88	C
TER	13236		PHE	D	427						
HETATM	13237	MG	MG	A	451	20.130	44.536	51.852	1.00	21.10	MG
HETATM	13238	MG	MG	B	452	5.041	57.848	80.250	1.00	27.97	MG
HETATM	13239	MG	MG	C	453	8.296	67.957	37.655	1.00	32.36	MG
HETATM	13240	MG	MG	D	454	10.773	84.273	67.893	1.00	43.69	MG
HETATM	13241	C1	PYR	A	500	19.340	39.213	53.566	1.00	33.09	C
HETATM	13242	O1	PYR	A	500	19.971	38.334	54.174	1.00	31.29	O
HETATM	13243	O2	PYR	A	500	19.568	40.450	53.609	1.00	34.18	O
HETATM	13244	C2	PYR	A	500	18.283	38.630	52.717	1.00	33.01	C
HETATM	13245	O3	PYR	A	500	18.136	37.405	52.580	1.00	33.52	O
HETATM	13246	C3	PYR	A	500	17.401	39.650	52.032	1.00	28.19	C
HETATM	13247	C1	PYR	B	500	6.861	53.686	83.487	1.00	29.79	C
HETATM	13248	O1	PYR	B	500	6.564	52.535	83.867	1.00	27.23	O
HETATM	13249	O2	PYR	B	500	6.291	54.338	82.578	1.00	30.97	O
HETATM	13250	C2	PYR	B	500	7.835	54.400	84.334	1.00	28.54	C
HETATM	13251	O3	PYR	B	500	8.267	53.793	85.321	1.00	31.54	O
HETATM	13252	C3	PYR	B	500	8.271	55.812	83.987	1.00	23.93	C
HETATM	13253	C1	PYR	C	500	9.270	72.555	34.488	1.00	33.15	C
HETATM	13254	O1	PYR	C	500	8.623	73.499	33.963	1.00	30.81	O
HETATM	13255	O2	PYR	C	500	8.834	71.753	35.346	1.00	32.95	O
HETATM	13256	C2	PYR	C	500	10.648	72.351	34.028	1.00	31.27	C
HETATM	13257	O3	PYR	C	500	11.041	73.071	33.117	1.00	32.07	O
HETATM	13258	C3	PYR	C	500	11.530	71.317	34.677	1.00	28.62	C
HETATM	13259	C1	PYR	D	500	8.606	89.242	65.911	1.00	33.59	C
HETATM	13260	O1	PYR	D	500	9.066	90.287	65.420	1.00	33.04	O
HETATM	13261	O2	PYR	D	500	9.179	88.131	65.924	1.00	35.21	O
HETATM	13262	C2	PYR	D	500	7.275	89.361	66.519	1.00	33.83	C
HETATM	13263	O3	PYR	D	500	6.545	90.336	66.374	1.00	34.89	O
HETATM	13264	C3	PYR	D	500	6.874	88.180	67.344	1.00	31.77	C
HETATM	13265	O	HOH	1001		15.054	57.079	43.996	1.00	15.14	O
HETATM	13266	O	HOH	1002		2.213	51.154	52.301	1.00	12.36	O
HETATM	13267	O	HOH	1003		-0.176	62.730	63.346	1.00	14.61	O
HETATM	13268	O	HOH	1004		18.290	54.433	52.565	1.00	14.63	O
HETATM	13269	O	HOH	1005		7.977	54.528	50.743	1.00	10.39	O
HETATM	13270	O	HOH	1006		18.142	65.802	66.577	1.00	14.05	O
HETATM	13271	O	HOH	1007		9.743	54.447	46.748	1.00	15.36	O
HETATM	13272	O	HOH	1008		21.261	64.339	72.795	1.00	16.80	O
HETATM	13273	O	HOH	1009		15.043	66.439	71.484	1.00	13.57	O



HETATM13274	O	HOH	1010	12.402	60.945	53.920	1.00	13.66
HETATM13275	O	HOH	1011	2.728	54.953	50.674	1.00	12.95
HETATM13276	O	HOH	1012	11.115	59.686	39.801	1.00	14.47
HETATM13277	O	HOH	1013	13.352	57.134	78.821	1.00	11.82
HETATM13278	O	HOH	1014	20.627	66.914	66.037	1.00	11.52
HETATM13279	O	HOH	1015	12.702	69.341	73.781	1.00	13.70
HETATM13280	O	HOH	1016	13.631	54.883	44.789	1.00	15.07
HETATM13281	O	HOH	1017	20.129	67.692	70.611	1.00	12.34
HETATM13282	O	HOH	1018	13.266	44.664	60.855	1.00	17.93
HETATM13283	O	HOH	1019	15.053	59.053	46.129	1.00	12.28
HETATM13284	O	HOH	1020	12.084	48.165	50.648	1.00	14.51
HETATM13285	O	HOH	1021	4.928	62.853	71.371	1.00	12.68
HETATM13286	O	HOH	1022	12.275	62.355	77.017	1.00	12.22
HETATM13287	O	HOH	1023	12.446	55.364	47.216	1.00	12.51
HETATM13288	O	HOH	1024	18.232	63.001	48.768	1.00	12.90
HETATM13289	O	HOH	1025	-1.597	68.560	65.683	1.00	16.35
HETATM13290	O	HOH	1026	4.025	62.136	73.949	1.00	13.28
HETATM13291	O	HOH	1027	2.482	49.290	56.361	1.00	13.88
HETATM13292	O	HOH	1028	22.784	61.817	56.863	1.00	13.91
HETATM13293	O	HOH	1029	23.294	63.486	50.605	1.00	17.30
HETATM13294	O	HOH	1030	-3.623	52.409	47.851	1.00	15.80
HETATM13295	O	HOH	1031	21.732	59.941	72.068	1.00	12.97
HETATM13296	O	HOH	1032	11.927	43.697	54.054	1.00	16.20
HETATM13297	O	HOH	1033	11.405	41.327	52.310	1.00	16.39
HETATM13298	O	HOH	1034	9.905	66.525	64.821	1.00	14.71
HETATM13299	O	HOH	1035	1.457	60.766	52.971	1.00	16.45
HETATM13300	O	HOH	1036	18.638	52.866	18.733	1.00	18.06
HETATM13301	O	HOH	1037	-7.465	56.711	59.694	1.00	14.40
HETATM13302	O	HOH	1038	28.324	77.693	66.944	1.00	19.18
HETATM13303	O	HOH	1039	8.821	70.673	74.949	1.00	18.29
HETATM13304	O	HOH	1040	6.035	59.794	54.572	1.00	15.20
HETATM13305	O	HOH	1041	-2.295	73.958	59.962	1.00	15.81
HETATM13306	O	HOH	1042	1.065	67.345	58.870	1.00	17.30
HETATM13307	O	HOH	1043	13.117	74.479	67.321	1.00	10.49
HETATM13308	O	HOH	1044	-8.259	63.493	54.484	1.00	20.33
HETATM13309	O	HOH	1045	26.404	66.825	46.974	1.00	18.01
HETATM13310	O	HOH	1046	3.809	59.635	80.827	1.00	15.97
HETATM13311	O	HOH	1047	14.230	49.822	73.186	1.00	15.91
HETATM13312	O	HOH	1048	7.712	55.874	45.945	1.00	16.95
HETATM13313	O	HOH	1049	3.909	45.137	59.792	1.00	19.74
HETATM13314	O	HOH	1050	7.529	63.201	43.485	1.00	13.22
HETATM13315	O	HOH	1051	6.643	79.793	68.237	1.00	18.72
HETATM13316	O	HOH	1052	15.772	65.915	42.441	1.00	13.18
HETATM13317	O	HOH	1053	-5.706	50.756	65.780	1.00	20.29
HETATM13318	O	HOH	1054	19.566	51.985	51.711	1.00	17.22
HETATM13319	O	HOH	1055	5.570	63.315	35.900	1.00	15.48
HETATM13320	O	HOH	1056	23.080	65.203	75.177	1.00	16.68
HETATM13321	O	HOH	1057	7.490	65.794	25.299	1.00	17.63
HETATM13322	O	HOH	1058	19.995	62.797	65.231	1.00	16.88
HETATM13323	O	HOH	1059	24.041	46.421	48.495	1.00	18.64
HETATM13324	O	HOH	1060	-2.924	71.938	63.750	1.00	17.51
HETATM13325	O	HOH	1061	7.865	47.147	38.279	1.00	20.85
HETATM13326	O	HOH	1062	13.374	65.806	40.751	1.00	15.07
HETATM13327	O	HOH	1063	9.635	61.533	78.066	1.00	12.97
HETATM13328	O	HOH	1064	19.965	87.898	56.258	1.00	23.37
HETATM13329	O	HOH	1065	19.957	64.347	54.003	1.00	19.46
HETATM13330	O	HOH	1066	-9.870	55.559	41.677	1.00	20.50
HETATM13331	O	HOH	1067	19.090	36.819	26.658	1.00	22.57
HETATM13332	O	HOH	1068	25.630	66.223	75.867	1.00	21.65
HETATM13333	O	HOH	1069	31.224	68.875	61.022	1.00	21.21
HETATM13334	O	HOH	1070	3.818	71.260	71.122	1.00	21.58
HETATM13335	O	HOH	1071	11.534	60.775	21.851	1.00	18.74
HETATM13336	O	HOH	1072	14.391	83.774	72.301	1.00	19.38
HETATM13337	O	HOH	1073	24.697	79.891	86.506	1.00	18.22
HETATM13338	O	HOH	1074	23.776	63.736	66.649	1.00	20.95
HETATM13339	O	HOH	1075	-9.154	58.337	57.950	1.00	17.45
HETATM13340	O	HOH	1076	3.087	38.691	52.261	1.00	13.50
HETATM13341	O	HOH	1077	-1.900	48.845	49.484	1.00	18.89
HETATM13342	O	HOH	1078	9.328	51.410	59.112	1.00	24.85
HETATM13343	O	HOH	1079	18.812	62.505	35.740	1.00	21.64
HETATM13344	O	HOH	1080	23.824	67.011	48.741	1.00	17.62
HETATM13345	O	HOH	1081	6.336	72.871	44.522	1.00	17.08
HETATM13346	O	HOH	1082	0.567	60.996	80.995	1.00	17.61
HETATM13347	O	HOH	1083	-2.755	59.419	59.321	1.00	21.56
HETATM13348	O	HOH	1084	0.837	57.623	56.371	1.00	18.90
HETATM13349	O	HOH	1085	-12.448	62.699	40.614	1.00	19.01
HETATM13350	O	HOH	1086	7.070	72.049	73.844	1.00	12.66
HETATM13351	O	HOH	1087	32.841	67.596	51.227	1.00	24.88
HETATM13352	O	HOH	1088	5.065	66.558	78.252	1.00	18.12
HETATM13353	O	HOH	1089	5.394	75.414	54.306	1.00	17.66



HETATM13354	O	HOH	1090	2.061	64.903	96.107	1.00	16.82	O
HETATM13355	O	HOH	1091	-6.362	68.273	46.900	1.00	18.44	O
HETATM13356	O	HOH	1092	29.472	71.119	60.219	1.00	19.50	O
HETATM13357	O	HOH	1093	11.785	44.711	43.380	1.00	17.82	O
HETATM13358	O	HOH	1094	4.639	78.066	67.554	1.00	14.13	O
HETATM13359	O	HOH	1095	20.046	59.021	50.107	1.00	14.48	O
HETATM13360	O	HOH	1096	6.745	57.849	47.905	1.00	17.98	O
HETATM13361	O	HOH	1097	-8.064	51.393	64.581	1.00	17.34	O
HETATM13362	O	HOH	1098	0.646	49.372	50.226	1.00	21.86	O
HETATM13363	O	HOH	1099	-3.100	56.177	55.881	1.00	18.82	O
HETATM13364	O	HOH	1100	20.649	50.082	75.826	1.00	17.50	O
HETATM13365	O	HOH	1101	6.475	52.799	73.227	1.00	15.52	O
HETATM13366	O	HOH	1102	31.690	65.533	62.784	1.00	25.51	O
HETATM13367	O	HOH	1103	30.612	63.087	63.159	1.00	16.00	O
HETATM13368	O	HOH	1104	-7.568	61.966	45.336	1.00	17.13	O
HETATM13369	O	HOH	1105	17.840	59.508	45.927	1.00	15.68	O
HETATM13370	O	HOH	1106	15.342	57.612	69.606	1.00	21.47	O
HETATM13371	O	HOH	1107	28.567	64.930	59.876	1.00	27.60	O
HETATM13372	O	HOH	1108	2.553	67.164	69.442	1.00	18.14	O
HETATM13373	O	HOH	1109	22.796	57.435	83.139	1.00	17.54	O
HETATM13374	O	HOH	1110	11.840	44.360	63.213	1.00	19.44	O
HETATM13375	O	HOH	1111	23.321	35.701	36.939	1.00	18.09	O
HETATM13376	O	HOH	1112	5.140	84.388	77.624	1.00	24.67	O
HETATM13377	O	HOH	1113	30.464	61.551	60.594	1.00	22.15	O
HETATM13378	O	HOH	1114	20.306	67.715	55.563	1.00	20.74	O
HETATM13379	O	HOH	1115	32.502	56.326	64.774	1.00	18.17	O
HETATM13380	O	HOH	1116	25.487	63.776	61.690	1.00	23.04	O
HETATM13381	O	HOH	1117	-10.970	59.638	32.138	1.00	23.67	O
HETATM13382	O	HOH	1118	-8.927	68.586	66.885	1.00	19.01	O
HETATM13383	O	HOH	1119	21.537	54.536	73.793	1.00	23.23	O
HETATM13384	O	HOH	1120	9.385	67.664	51.241	1.00	19.91	O
HETATM13385	O	HOH	1121	10.048	77.734	73.777	1.00	21.34	O
HETATM13386	O	HOH	1122	3.349	70.952	66.710	1.00	20.95	O
HETATM13387	O	HOH	1123	14.006	75.304	52.116	1.00	19.53	O
HETATM13388	O	HOH	1124	22.431	71.271	49.240	1.00	20.57	O
HETATM13389	O	HOH	1125	-8.311	57.231	39.719	1.00	23.45	O
HETATM13390	O	HOH	1126	2.129	84.368	65.478	1.00	22.24	O
HETATM13391	O	HOH	1127	8.903	58.960	66.967	1.00	17.58	O
HETATM13392	O	HOH	1128	-2.571	74.758	93.621	1.00	18.23	O
HETATM13393	O	HOH	1129	3.662	59.154	92.178	1.00	19.73	O
HETATM13394	O	HOH	1130	-14.638	62.987	71.692	1.00	19.28	O
HETATM13395	O	HOH	1131	1.375	53.927	20.247	1.00	22.95	O
HETATM13396	O	HOH	1132	12.416	79.698	88.685	1.00	25.06	O
HETATM13397	O	HOH	1133	7.469	66.734	87.218	1.00	16.81	O
HETATM13398	O	HOH	1134	12.751	81.644	59.807	1.00	17.51	O
HETATM13399	O	HOH	1135	15.046	57.497	66.927	1.00	16.52	O
HETATM13400	O	HOH	1136	13.149	77.167	68.255	1.00	16.82	O
HETATM13401	O	HOH	1137	14.682	71.013	72.918	1.00	16.76	O
HETATM13402	O	HOH	1138	9.865	67.377	38.807	1.00	20.43	O
HETATM13403	O	HOH	1139	10.328	49.678	23.612	1.00	14.26	O
HETATM13404	O	HOH	1140	18.270	50.566	45.923	1.00	25.57	O
HETATM13405	O	HOH	1141	-4.203	54.588	52.142	1.00	17.72	O
HETATM13406	O	HOH	1142	-9.574	68.575	49.506	1.00	20.65	O
HETATM13407	O	HOH	1143	4.151	65.313	62.802	1.00	18.93	O
HETATM13408	O	HOH	1144	-0.353	55.593	56.497	1.00	21.84	O
HETATM13409	O	HOH	1145	-8.210	72.454	65.396	1.00	24.29	O
HETATM13410	O	HOH	1146	16.882	43.092	40.928	1.00	20.00	O
HETATM13411	O	HOH	1147	3.141	53.128	89.209	1.00	20.83	O
HETATM13412	O	HOH	1148	18.096	45.691	51.502	1.00	20.82	O
HETATM13413	O	HOH	1149	29.726	67.950	84.579	1.00	19.95	O
HETATM13414	O	HOH	1150	10.191	68.986	73.033	1.00	14.21	O
HETATM13415	O	HOH	1151	4.786	36.003	64.167	1.00	23.05	O
HETATM13416	O	HOH	1152	-9.792	49.349	65.369	1.00	21.86	O
HETATM13417	O	HOH	1153	18.984	47.257	60.240	1.00	20.17	O
HETATM13418	O	HOH	1154	27.886	64.830	69.551	1.00	17.15	O
HETATM13419	O	HOH	1155	24.267	68.231	55.118	1.00	23.10	O
HETATM13420	O	HOH	1156	-16.573	58.448	81.108	1.00	22.78	O
HETATM13421	O	HOH	1157	8.887	79.748	86.825	1.00	24.29	O
HETATM13422	O	HOH	1158	21.059	76.255	47.345	1.00	23.17	O
HETATM13423	O	HOH	1159	30.745	53.944	62.112	1.00	15.05	O
HETATM13424	O	HOH	1160	14.590	47.386	50.532	1.00	14.91	O
HETATM13425	O	HOH	1161	14.300	57.432	81.846	1.00	11.78	O
HETATM13426	O	HOH	1162	26.731	43.788	65.542	1.00	20.43	O
HETATM13427	O	HOH	1163	-9.408	61.639	56.003	1.00	23.72	O
HETATM13428	O	HOH	1164	19.220	60.983	39.626	1.00	25.01	O
HETATM13429	O	HOH	1165	-2.282	77.191	78.525	1.00	25.23	O
HETATM13430	O	HOH	1166	20.039	58.342	47.296	1.00	15.93	O
HETATM13431	O	HOH	1167	-5.550	73.049	65.132	1.00	22.03	O
HETATM13432	O	HOH	1168	6.242	35.566	43.184	1.00	23.80	O
HETATM13433	O	HOH	1169	-4.686	52.917	54.355	1.00	22.24	O



HETATM13434	O	HOH	1170	4.670	56.703	92.935	1.00	26.24	O
HETATM13435	O	HOH	1171	-11.610	68.497	62.782	1.00	20.03	O
HETATM13436	O	HOH	1172	-0.080	58.347	15.957	1.00	28.75	O
HETATM13437	O	HOH	1173	30.385	63.716	49.248	1.00	20.79	O
HETATM13438	O	HOH	1174	33.410	56.548	56.561	1.00	18.90	O
HETATM13439	O	HOH	1175	30.360	54.337	64.767	1.00	18.64	O
HETATM13440	O	HOH	1176	25.740	43.564	29.863	1.00	21.60	O
HETATM13441	O	HOH	1177	35.381	65.211	56.410	1.00	24.37	O
HETATM13442	O	HOH	1178	-10.248	63.301	29.812	1.00	19.31	O
HETATM13443	O	HOH	1179	6.793	55.420	33.896	1.00	23.37	O
HETATM13444	O	HOH	1180	9.019	53.488	60.529	1.00	16.96	O
HETATM13445	O	HOH	1181	15.381	71.333	40.632	1.00	18.27	O
HETATM13446	O	HOH	1182	6.114	51.352	36.196	1.00	31.47	O
HETATM13447	O	HOH	1183	32.406	67.250	54.211	1.00	23.06	O
HETATM13448	O	HOH	1184	6.088	41.291	62.191	1.00	21.59	O
HETATM13449	O	HOH	1185	6.792	71.503	70.998	1.00	18.22	O
HETATM13450	O	HOH	1186	-2.972	67.081	59.292	1.00	19.96	O
HETATM13451	O	HOH	1187	-7.190	51.267	51.268	1.00	21.11	O
HETATM13452	O	HOH	1188	20.984	45.016	49.963	1.00	24.40	O
HETATM13453	O	HOH	1189	24.497	56.716	85.136	1.00	22.56	O
HETATM13454	O	HOH	1190	10.163	35.473	40.994	1.00	20.67	O
HETATM13455	O	HOH	1191	-5.569	42.583	51.584	1.00	17.99	O
HETATM13456	O	HOH	1192	16.187	66.558	64.651	1.00	23.63	O
HETATM13457	O	HOH	1193	9.130	65.843	93.956	1.00	22.28	O
HETATM13458	O	HOH	1194	12.525	44.181	83.402	1.00	21.78	O
HETATM13459	O	HOH	1195	-2.318	47.893	32.308	1.00	24.96	O
HETATM13460	O	HOH	1196	10.848	85.966	90.665	1.00	23.85	O
HETATM13461	O	HOH	1197	30.350	61.768	79.551	1.00	20.47	O
HETATM13462	O	HOH	1198	4.796	74.791	100.482	1.00	26.53	O
HETATM13463	O	HOH	1199	11.361	83.950	70.129	1.00	19.43	O
HETATM13464	O	HOH	1200	-5.580	49.594	33.702	1.00	21.41	O
HETATM13465	O	HOH	1201	8.201	37.613	29.530	1.00	34.81	O
HETATM13466	O	HOH	1202	26.445	69.656	73.962	1.00	20.60	O
HETATM13467	O	HOH	1203	11.241	58.673	20.318	1.00	23.61	O
HETATM13468	O	HOH	1204	-6.381	60.566	60.002	1.00	28.55	O
HETATM13469	O	HOH	1205	-13.183	62.538	62.145	1.00	22.94	O
HETATM13470	O	HOH	1206	13.842	34.172	51.116	1.00	24.49	O
HETATM13471	O	HOH	1207	23.488	65.880	36.145	1.00	25.39	O
HETATM13472	O	HOH	1208	15.868	76.084	84.927	1.00	32.82	O
HETATM13473	O	HOH	1209	-8.606	43.939	69.397	1.00	26.89	O
HETATM13474	O	HOH	1210	-11.980	65.470	79.824	1.00	23.77	O
HETATM13475	O	HOH	1211	-1.755	78.632	56.718	1.00	22.28	O
HETATM13476	O	HOH	1212	24.867	74.536	38.734	1.00	23.26	O
HETATM13477	O	HOH	1213	31.933	45.688	26.281	1.00	34.69	O
HETATM13478	O	HOH	1214	28.442	72.231	62.483	1.00	18.76	O
HETATM13479	O	HOH	1215	6.816	42.031	44.733	1.00	29.93	O
HETATM13480	O	HOH	1216	3.567	54.692	21.585	1.00	21.00	O
HETATM13481	O	HOH	1217	-7.516	53.717	52.400	1.00	21.34	O
HETATM13482	O	HOH	1218	-13.187	77.094	62.468	1.00	21.20	O
HETATM13483	O	HOH	1219	10.470	69.125	24.922	1.00	25.11	O
HETATM13484	O	HOH	1220	0.492	66.644	97.563	1.00	29.67	O
HETATM13485	O	HOH	1221	-7.357	57.955	62.283	1.00	21.74	O
HETATM13486	O	HOH	1222	6.236	83.778	47.203	1.00	20.05	O
HETATM13487	O	HOH	1223	29.782	29.512	63.143	1.00	31.63	O
HETATM13488	O	HOH	1224	12.328	66.675	83.938	1.00	18.46	O
HETATM13489	O	HOH	1225	-9.534	58.097	68.975	1.00	18.41	O
HETATM13490	O	HOH	1226	-13.427	82.977	52.919	1.00	30.45	O
HETATM13491	O	HOH	1227	1.123	59.012	91.861	1.00	20.68	O
HETATM13492	O	HOH	1228	33.263	70.316	67.805	1.00	26.06	O
HETATM13493	O	HOH	1229	26.087	64.965	66.282	1.00	19.81	O
HETATM13494	O	HOH	1230	15.958	33.028	61.968	1.00	24.80	O
HETATM13495	O	HOH	1231	10.974	42.610	71.166	1.00	18.73	O
HETATM13496	O	HOH	1232	4.950	74.572	58.639	1.00	24.80	O
HETATM13497	O	HOH	1233	23.076	45.793	78.807	1.00	22.15	O
HETATM13498	O	HOH	1234	11.488	72.761	60.516	1.00	17.16	O
HETATM13499	O	HOH	1235	-1.344	36.199	58.055	1.00	27.87	O
HETATM13500	O	HOH	1236	27.649	68.463	63.027	1.00	27.20	O
HETATM13501	O	HOH	1237	0.543	69.166	26.556	1.00	18.79	O
HETATM13502	O	HOH	1238	16.675	58.580	40.338	1.00	28.22	O
HETATM13503	O	HOH	1239	-0.574	38.671	86.984	1.00	27.13	O
HETATM13504	O	HOH	1240	-2.180	83.811	28.957	1.00	33.95	O
HETATM13505	O	HOH	1241	26.789	65.470	73.576	1.00	23.71	O
HETATM13506	O	HOH	1242	21.390	53.951	13.336	1.00	28.97	O
HETATM13507	O	HOH	1243	-3.038	62.937	56.124	1.00	24.95	O
HETATM13508	O	HOH	1244	21.997	59.366	38.639	1.00	28.93	O
HETATM13509	O	HOH	1245	2.227	69.139	71.244	1.00	21.78	O
HETATM13510	O	HOH	1246	14.894	55.276	58.809	1.00	18.04	O
HETATM13511	O	HOH	1247	-0.550	38.590	58.683	1.00	24.11	O
HETATM13512	O	HOH	1248	-14.946	61.954	54.330	1.00	24.54	O
HETATM13513	O	HOH	1249	-6.947	70.327	48.736	1.00	29.40	O



HETATM13514	O	HOH	1250	32.529	82.783	68.663	1.00	29.54	O
HETATM13515	O	HOH	1251	-4.649	54.565	34.620	1.00	21.35	O
HETATM13516	O	HOH	1252	34.514	81.981	81.237	1.00	26.31	O
HETATM13517	O	HOH	1253	26.189	79.737	60.979	1.00	22.12	O
HETATM13518	O	HOH	1254	-0.050	45.031	73.692	1.00	20.23	O
HETATM13519	O	HOH	1255	27.486	80.310	83.711	1.00	20.53	O
HETATM13520	O	HOH	1256	2.214	59.700	15.529	1.00	25.69	O
HETATM13521	O	HOH	1257	12.994	82.002	34.212	1.00	33.83	O
HETATM13522	O	HOH	1258	3.726	82.420	63.842	1.00	24.65	O
HETATM13523	O	HOH	1259	1.691	50.535	95.844	1.00	29.76	O
HETATM13524	O	HOH	1260	15.211	63.852	93.050	1.00	23.74	O
HETATM13525	O	HOH	1261	-3.266	44.388	34.648	1.00	27.44	O
HETATM13526	O	HOH	1262	26.985	67.451	69.586	1.00	19.89	O
HETATM13527	O	HOH	1263	3.736	35.660	45.541	1.00	27.29	O
HETATM13528	O	HOH	1264	-3.044	72.597	80.653	1.00	37.05	O
HETATM13529	O	HOH	1265	10.948	54.887	20.427	1.00	24.82	O
HETATM13530	O	HOH	1266	40.388	47.304	46.099	1.00	26.31	O
HETATM13531	O	HOH	1267	1.791	66.712	62.764	1.00	23.32	O
HETATM13532	O	HOH	1268	-12.116	70.701	60.906	1.00	26.31	O
HETATM13533	O	HOH	1269	17.143	67.108	92.692	1.00	22.51	O
HETATM13534	O	HOH	1270	-12.238	45.889	34.992	1.00	28.08	O
HETATM13535	O	HOH	1271	17.708	36.618	71.025	1.00	23.04	O
HETATM13536	O	HOH	1272	29.387	66.029	53.359	1.00	26.09	O
HETATM13537	O	HOH	1273	25.993	51.281	19.366	1.00	33.30	O
HETATM13538	O	HOH	1274	-17.084	59.899	86.276	1.00	34.67	O
HETATM13539	O	HOH	1275	-18.112	55.105	53.695	1.00	32.56	O
HETATM13540	O	HOH	1276	16.242	76.818	82.553	1.00	31.40	O
HETATM13541	O	HOH	1277	29.098	66.906	46.861	1.00	22.87	O
HETATM13542	O	HOH	1278	11.171	40.127	89.527	1.00	27.85	O
HETATM13543	O	HOH	1279	-15.100	55.305	83.464	1.00	24.82	O
HETATM13544	O	HOH	1280	31.289	79.908	58.398	1.00	29.59	O
HETATM13545	O	HOH	1281	29.457	90.823	76.543	1.00	28.47	O
HETATM13546	O	HOH	1282	31.099	77.841	73.975	1.00	24.79	O
HETATM13547	O	HOH	1283	24.634	35.682	34.721	1.00	28.68	O
HETATM13548	O	HOH	1284	-7.970	67.821	60.212	1.00	27.75	O
HETATM13549	O	HOH	1285	34.505	54.784	65.787	1.00	28.08	O
HETATM13550	O	HOH	1286	0.973	36.843	46.465	1.00	23.32	O
HETATM13551	O	HOH	1287	3.447	74.288	22.424	1.00	25.05	O
HETATM13552	O	HOH	1288	-6.691	51.322	54.660	1.00	22.43	O
HETATM13553	O	HOH	1289	6.577	72.093	28.220	1.00	28.09	O
HETATM13554	O	HOH	1290	9.313	88.208	68.954	1.00	39.00	O
HETATM13555	O	HOH	1291	-12.448	51.186	44.877	1.00	24.62	O
HETATM13556	O	HOH	1292	30.756	64.202	73.421	1.00	33.90	O
HETATM13557	O	HOH	1293	14.932	73.048	84.460	1.00	25.30	O
HETATM13558	O	HOH	1294	26.546	79.281	58.314	1.00	25.49	O
HETATM13559	O	HOH	1295	12.853	50.410	43.621	1.00	30.79	O
HETATM13560	O	HOH	1296	10.934	38.315	75.694	1.00	24.47	O
HETATM13561	O	HOH	1297	16.183	42.608	70.069	1.00	21.39	O
HETATM13562	O	HOH	1298	-6.707	78.187	77.934	1.00	30.50	O
HETATM13563	O	HOH	1299	10.927	85.707	65.194	1.00	26.73	O
HETATM13564	O	HOH	1300	-3.315	87.322	52.407	1.00	29.01	O
HETATM13565	O	HOH	1301	-9.037	68.613	63.918	1.00	22.25	O
HETATM13566	O	HOH	1302	35.368	52.325	44.268	1.00	30.48	O
HETATM13567	O	HOH	1303	17.904	62.197	25.441	1.00	20.14	O
HETATM13568	O	HOH	1304	5.801	73.821	21.322	1.00	23.76	O
HETATM13569	O	HOH	1305	14.788	80.966	80.293	1.00	28.01	O
HETATM13570	O	HOH	1306	-6.559	41.728	68.632	1.00	28.89	O
HETATM13571	O	HOH	1307	-4.847	80.967	76.846	1.00	31.31	O
HETATM13572	O	HOH	1308	18.125	62.942	55.568	1.00	19.47	O
HETATM13573	O	HOH	1309	13.150	51.550	88.260	1.00	28.48	O
HETATM13574	O	HOH	1310	16.348	74.374	31.112	1.00	36.83	O
HETATM13575	O	HOH	1311	-0.978	70.638	96.953	1.00	30.08	O
HETATM13576	O	HOH	1312	-9.136	41.641	94.180	1.00	32.92	O
HETATM13577	O	HOH	1313	16.849	71.600	38.121	1.00	21.08	O
HETATM13578	O	HOH	1314	-7.817	78.587	39.042	1.00	29.60	O
HETATM13579	O	HOH	1315	12.780	54.129	88.566	1.00	23.33	O
HETATM13580	O	HOH	1316	-7.793	66.487	62.804	1.00	25.67	O
HETATM13581	O	HOH	1317	21.063	48.968	32.698	1.00	23.52	O
HETATM13582	O	HOH	1318	40.158	31.171	60.886	1.00	33.87	O
HETATM13583	O	HOH	1319	-14.666	69.837	80.066	1.00	26.07	O
HETATM13584	O	HOH	1320	14.645	53.764	37.654	1.00	25.73	O
HETATM13585	O	HOH	1321	-5.275	41.779	43.710	1.00	29.64	O
HETATM13586	O	HOH	1322	24.902	68.290	60.485	1.00	25.59	O
HETATM13587	O	HOH	1323	-7.478	68.098	93.994	1.00	24.89	O
HETATM13588	O	HOH	1324	5.928	82.057	54.919	1.00	24.14	O
HETATM13589	O	HOH	1325	15.061	60.753	31.764	1.00	24.99	O
HETATM13590	O	HOH	1326	-23.303	64.078	77.983	1.00	33.83	O
HETATM13591	O	HOH	1327	28.311	29.580	50.153	1.00	33.36	O
HETATM13592	O	HOH	1328	-3.367	51.918	24.679	1.00	28.34	O
HETATM13593	O	HOH	1329	30.293	66.902	72.355	1.00	21.25	O



HETATM13594	O	HOH	1330	-3.441	75.327	81.057	1.00	27.29
HETATM13595	O	HOH	1331	26.759	17.650	63.966	1.00	29.55
HETATM13596	O	HOH	1332	29.412	78.156	58.902	1.00	21.34
HETATM13597	O	HOH	1333	32.793	72.752	44.017	1.00	22.39
HETATM13598	O	HOH	1334	-11.628	39.755	46.291	1.00	23.72
HETATM13599	O	HOH	1335	5.576	41.877	31.295	1.00	38.89
HETATM13600	O	HOH	1336	9.271	82.559	68.031	1.00	26.38
HETATM13601	O	HOH	1337	15.221	71.190	50.176	1.00	20.71
HETATM13602	O	HOH	1338	3.968	45.128	38.110	1.00	24.09
HETATM13603	O	HOH	1339	17.517	33.609	77.963	1.00	25.17
HETATM13604	O	HOH	1340	37.443	57.732	50.403	1.00	27.02
HETATM13605	O	HOH	1341	4.993	93.983	56.579	1.00	32.38
HETATM13606	O	HOH	1342	7.932	35.550	79.482	1.00	26.51
HETATM13607	O	HOH	1343	9.009	77.658	84.688	1.00	34.23
HETATM13608	O	HOH	1344	20.132	85.360	42.583	1.00	25.90
HETATM13609	O	HOH	1345	-1.963	50.991	21.978	1.00	30.36
HETATM13610	O	HOH	1346	-6.150	52.535	67.739	1.00	17.20
HETATM13611	O	HOH	1347	-3.891	80.619	80.794	1.00	28.34
HETATM13612	O	HOH	1348	-17.891	66.509	68.072	1.00	30.00
HETATM13613	O	HOH	1349	24.960	49.401	40.552	1.00	26.26
HETATM13614	O	HOH	1350	19.689	33.305	46.781	1.00	31.99
HETATM13615	O	HOH	1351	-10.901	56.320	51.201	1.00	23.71
HETATM13616	O	HOH	1352	5.522	56.821	84.379	1.00	26.94
HETATM13617	O	HOH	1353	-15.922	62.837	60.536	1.00	29.22
HETATM13618	O	HOH	1354	14.389	32.745	59.299	1.00	22.86
HETATM13619	O	HOH	1355	31.842	40.566	34.819	1.00	24.26
HETATM13620	O	HOH	1356	39.748	66.431	50.941	1.00	27.10
HETATM13621	O	HOH	1357	3.893	68.058	55.976	1.00	26.08
HETATM13622	O	HOH	1358	3.128	93.889	58.777	1.00	35.61
HETATM13623	O	HOH	1359	4.328	58.647	59.057	1.00	28.03
HETATM13624	O	HOH	1360	13.418	38.951	75.482	1.00	31.39
HETATM13625	O	HOH	1361	26.832	67.477	56.234	1.00	30.83
HETATM13626	O	HOH	1362	-13.227	62.085	74.023	1.00	32.44
HETATM13627	O	HOH	1363	15.346	77.245	31.323	1.00	27.85
HETATM13628	O	HOH	1364	9.374	63.103	93.260	1.00	27.73
HETATM13629	O	HOH	1365	13.203	35.808	23.582	1.00	42.40
HETATM13630	O	HOH	1366	5.970	72.478	57.420	1.00	19.93
HETATM13631	O	HOH	1367	22.604	35.549	43.930	1.00	23.18
HETATM13632	O	HOH	1368	23.125	63.646	34.890	1.00	25.72
HETATM13633	O	HOH	1369	-1.110	76.860	75.733	1.00	31.90
HETATM13634	O	HOH	1370	-3.530	81.874	71.600	1.00	29.54
HETATM13635	O	HOH	1371	9.614	36.007	77.067	1.00	33.07
HETATM13636	O	HOH	1372	-15.097	55.482	72.339	1.00	27.49
HETATM13637	O	HOH	1373	-0.343	51.932	88.545	1.00	34.68
HETATM13638	O	HOH	1374	-0.580	82.921	54.695	1.00	29.04
HETATM13639	O	HOH	1375	-6.910	62.661	52.316	1.00	22.31
HETATM13640	O	HOH	1376	29.479	79.667	73.843	1.00	28.20
HETATM13641	O	HOH	1377	-5.922	36.949	61.017	1.00	24.92
HETATM13642	O	HOH	1378	-13.091	54.992	51.897	1.00	30.29
HETATM13643	O	HOH	1379	31.090	87.780	75.848	1.00	32.03
HETATM13644	O	HOH	1380	13.800	35.353	37.560	1.00	32.90
HETATM13645	O	HOH	1381	26.363	104.323	57.064	1.00	54.20
HETATM13646	O	HOH	1382	4.290	80.488	91.821	1.00	29.47
HETATM13647	O	HOH	1383	25.206	36.247	44.199	1.00	25.53
HETATM13648	O	HOH	1384	-1.671	52.163	55.674	1.00	34.19
HETATM13649	O	HOH	1385	0.712	37.357	43.105	1.00	28.73
HETATM13650	O	HOH	1386	18.853	34.258	71.803	1.00	34.25
HETATM13651	O	HOH	1387	25.030	38.079	31.615	1.00	20.16
HETATM13652	O	HOH	1388	-4.984	84.951	53.231	1.00	32.77
HETATM13653	O	HOH	1389	7.363	93.095	82.917	1.00	22.89
HETATM13654	O	HOH	1390	17.713	64.851	84.833	1.00	33.32
HETATM13655	O	HOH	1391	13.905	95.661	69.275	1.00	41.10
HETATM13656	O	HOH	1392	-11.733	69.916	48.478	1.00	24.99
HETATM13657	O	HOH	1393	-2.237	77.839	42.067	1.00	27.12
HETATM13658	O	HOH	1394	-2.033	36.395	46.648	1.00	39.36
HETATM13659	O	HOH	1395	19.180	62.785	91.544	1.00	29.95
HETATM13660	O	HOH	1396	8.448	43.574	35.715	1.00	26.35
HETATM13661	O	HOH	1397	14.770	68.443	96.272	1.00	30.10
HETATM13662	O	HOH	1398	25.602	63.834	28.425	1.00	23.40
HETATM13663	O	HOH	1399	7.084	73.352	78.094	1.00	38.51
HETATM13664	O	HOH	1400	16.368	51.613	38.239	1.00	27.40
HETATM13665	O	HOH	1401	4.198	33.976	89.349	1.00	33.75
HETATM13666	O	HOH	1402	10.250	69.242	79.120	1.00	24.85
HETATM13667	O	HOH	1403	41.453	60.093	57.609	1.00	34.96
HETATM13668	O	HOH	1404	-8.918	85.316	63.701	1.00	32.50
HETATM13669	O	HOH	1405	18.002	67.694	57.425	1.00	32.47
HETATM13670	O	HOH	1406	-0.886	47.833	25.692	1.00	23.23
HETATM13671	O	HOH	1407	13.891	32.912	53.583	1.00	29.68
HETATM13672	O	HOH	1408	1.285	80.788	74.499	1.00	23.98
HETATM13673	O	HOH	1409	20.009	42.996	54.546	1.00	27.61



HETATM13674	O	HOH	1410	6.567	34.073	78.045	1.00	31.39	O
HETATM13675	O	HOH	1411	22.880	51.699	38.608	1.00	32.18	O
HETATM13676	O	HOH	1412	10.271	31.949	77.670	1.00	39.42	O
HETATM13677	O	HOH	1413	24.491	50.498	31.805	1.00	41.57	O
HETATM13678	O	HOH	1414	12.546	51.894	74.403	1.00	17.96	O
HETATM13679	O	HOH	1415	34.883	48.316	68.011	1.00	27.09	O
HETATM13680	O	HOH	1416	32.933	51.419	78.946	1.00	34.86	O
HETATM13681	O	HOH	1417	-2.396	67.189	14.073	1.00	36.02	O
HETATM13682	O	HOH	1418	34.533	40.022	34.329	1.00	35.07	O
HETATM13683	O	HOH	1419	2.737	37.962	62.742	1.00	27.11	O
HETATM13684	O	HOH	1420	30.250	64.229	70.448	1.00	23.52	O
HETATM13685	O	HOH	1421	4.163	61.634	53.124	1.00	23.94	O
HETATM13686	O	HOH	1422	-0.149	62.231	54.792	1.00	37.67	O
HETATM13687	O	HOH	1423	25.631	81.770	79.499	1.00	28.92	O
HETATM13688	O	HOH	1424	22.213	83.152	43.967	1.00	33.15	O
HETATM13689	O	HOH	1425	-3.237	37.368	86.936	1.00	30.22	O
HETATM13690	O	HOH	1426	32.673	41.661	66.481	1.00	30.87	O
HETATM13691	O	HOH	1427	1.964	38.029	59.446	1.00	29.18	O
HETATM13692	O	HOH	1428	8.463	52.400	36.495	1.00	31.87	O
HETATM13693	O	HOH	1429	-12.980	72.613	82.205	1.00	29.82	O
HETATM13694	O	HOH	1430	-1.751	52.496	90.942	1.00	33.45	O
HETATM13695	O	HOH	1431	44.524	46.590	50.545	1.00	26.16	O
HETATM13696	O	HOH	1432	-15.652	43.325	50.447	1.00	33.12	O
HETATM13697	O	HOH	1433	30.489	49.530	22.986	1.00	44.48	O
HETATM13698	O	HOH	1434	33.886	33.089	35.656	1.00	30.51	O
HETATM13699	O	HOH	1435	32.643	29.491	63.843	1.00	36.77	O
HETATM13700	O	HOH	1436	-0.214	60.929	61.134	1.00	26.77	O
HETATM13701	O	HOH	1437	5.330	56.548	61.097	1.00	31.03	O
HETATM13702	O	HOH	1438	-10.252	73.566	57.691	1.00	40.18	O
HETATM13703	O	HOH	1439	27.763	51.957	81.712	1.00	25.69	O
HETATM13704	O	HOH	1440	17.412	92.965	96.910	1.00	45.69	O
HETATM13705	O	HOH	1441	37.312	68.732	73.121	1.00	38.35	O
HETATM13706	O	HOH	1442	20.506	53.838	88.835	1.00	32.28	O
HETATM13707	O	HOH	1443	21.906	33.403	45.566	1.00	26.70	O
HETATM13708	O	HOH	1444	11.199	93.300	76.372	1.00	37.51	O
HETATM13709	O	HOH	1445	2.074	45.819	31.261	1.00	30.30	O
HETATM13710	O	HOH	1446	14.679	80.684	90.274	1.00	26.22	O
HETATM13711	O	HOH	1447	-5.928	78.691	80.796	1.00	38.03	O
HETATM13712	O	HOH	1448	-11.637	48.437	31.698	1.00	28.97	O
HETATM13713	O	HOH	1449	19.945	77.663	45.031	1.00	25.01	O
HETATM13714	O	HOH	1450	-3.789	53.382	89.373	1.00	22.41	O
HETATM13715	O	HOH	1451	12.626	51.019	34.740	1.00	35.16	O
HETATM13716	O	HOH	1452	-14.030	47.227	59.308	1.00	36.92	O
HETATM13717	O	HOH	1453	13.734	76.963	81.463	1.00	42.20	O
HETATM13718	O	HOH	1454	8.051	65.659	36.774	1.00	24.98	O
HETATM13719	O	HOH	1455	13.310	101.179	70.796	1.00	32.71	O
HETATM13720	O	HOH	1456	-10.422	68.469	59.613	1.00	27.00	O
HETATM13721	O	HOH	1457	16.596	91.321	87.237	1.00	23.35	O
HETATM13722	O	HOH	1458	14.576	70.930	52.779	1.00	33.01	O
HETATM13723	O	HOH	1459	34.714	76.085	75.893	1.00	32.22	O
HETATM13724	O	HOH	1460	-20.761	41.079	53.884	1.00	38.68	O
HETATM13725	O	HOH	1461	12.046	30.842	74.494	1.00	34.54	O
HETATM13726	O	HOH	1462	-9.965	81.005	45.314	1.00	33.60	O
HETATM13727	O	HOH	1463	-9.965	58.098	26.965	1.00	26.13	O
HETATM13728	O	HOH	1464	-14.172	52.218	29.673	1.00	46.74	O
HETATM13729	O	HOH	1465	5.724	54.833	79.616	1.00	24.13	O
HETATM13730	O	HOH	1466	-8.534	80.491	85.090	1.00	38.26	O
HETATM13731	O	HOH	1467	10.629	94.579	69.684	1.00	31.37	O
HETATM13732	O	HOH	1468	12.084	105.880	54.526	1.00	35.09	O
HETATM13733	O	HOH	1469	-13.291	48.982	94.450	1.00	32.55	O
HETATM13734	O	HOH	1470	-8.070	62.334	99.904	1.00	26.37	O
HETATM13735	O	HOH	1471	17.355	50.177	32.287	1.00	39.20	O
HETATM13736	O	HOH	1472	-13.975	59.100	32.236	1.00	32.62	O
HETATM13737	O	HOH	1473	10.002	68.011	35.849	1.00	35.15	O
HETATM13738	O	HOH	1474	-0.089	36.404	37.611	1.00	41.78	O
HETATM13739	O	HOH	1475	21.897	64.941	65.005	1.00	22.34	O
HETATM13740	O	HOH	1476	7.007	56.985	50.495	1.00	13.59	O
HETATM13741	O	HOH	1477	0.936	56.105	52.749	1.00	14.34	O
HETATM13742	O	HOH	1478	19.004	61.438	50.727	1.00	11.23	O
HETATM13743	O	HOH	1479	17.857	66.947	69.159	1.00	14.78	O
HETATM13744	O	HOH	1480	1.885	58.271	53.832	1.00	13.77	O
HETATM13745	O	HOH	1481	21.829	66.832	68.554	1.00	14.27	O
HETATM13746	O	HOH	1482	-0.451	65.166	62.469	1.00	14.40	O
HETATM13747	O	HOH	1483	4.822	56.246	51.848	1.00	14.44	O
HETATM13748	O	HOH	1484	22.559	64.074	55.145	1.00	19.48	O
HETATM13749	O	HOH	1485	24.327	81.765	88.471	1.00	20.43	O
HETATM13750	O	HOH	1486	27.649	67.639	72.283	1.00	19.71	O
HETATM13751	O	HOH	1487	24.577	66.688	68.397	1.00	18.64	O
HETATM13752	O	HOH	1488	1.082	68.165	65.139	1.00	16.93	O
HETATM13753	O	HOH	1489	-2.320	67.047	63.246	1.00	17.73	O



HETATM13754	O	HOH	1490	22.584	66.521	56.492	1.00	19.61	O
HETATM13755	O	HOH	1491	-1.820	55.444	53.162	1.00	15.83	O
HETATM13756	O	HOH	1492	-0.978	65.735	59.778	1.00	18.76	O
HETATM13757	O	HOH	1493	26.784	66.685	58.765	1.00	20.81	O
HETATM13758	O	HOH	1494	3.175	68.162	66.825	1.00	19.66	O
HETATM13759	O	HOH	1495	-4.702	52.289	50.462	1.00	16.61	O
HETATM13760	O	HOH	1496	24.025	64.566	53.111	1.00	21.75	O
HETATM13761	O	HOH	1497	-4.871	66.509	62.262	1.00	18.27	O
HETATM13762	O	HOH	1498	26.479	65.858	53.884	1.00	20.77	O
HETATM13763	O	HOH	1499	6.685	59.143	79.137	1.00	19.92	O
HETATM13764	O	HOH	1500	26.131	66.005	63.680	1.00	30.21	O
HETATM13765	O	HOH	1501	-15.320	62.276	40.682	1.00	24.99	O
HETATM13766	O	HOH	1502	15.099	54.037	40.375	1.00	19.88	O
HETATM13767	O	HOH	1503	-4.624	62.959	58.771	1.00	28.33	O
HETATM13768	O	HOH	1504	-8.426	59.228	28.792	1.00	12.06	O
HETATM13769	O	HOH	1505	8.069	93.331	85.433	1.00	32.21	O
HETATM13770	O	HOH	1506	6.979	48.489	35.411	1.00	23.59	O
HETATM13771	O	HOH	1507	-1.066	59.858	56.900	1.00	31.93	O
HETATM13772	O	HOH	1508	11.652	57.000	12.759	1.00	27.75	O
HETATM13773	O	HOH	1509	11.590	75.936	44.588	1.00	22.31	O
HETATM13774	O	HOH	1510	-15.941	60.764	82.898	1.00	27.04	O
HETATM13775	O	HOH	1511	7.943	37.041	38.506	1.00	19.54	O
HETATM13776	O	HOH	1512	9.868	77.690	80.704	1.00	35.00	O
HETATM13777	O	HOH	1513	15.935	63.076	9.958	1.00	33.76	O
HETATM13778	O	HOH	1514	-20.881	65.171	77.617	1.00	28.66	O
HETATM13779	O	HOH	1515	18.597	62.116	63.190	1.00	26.71	O
HETATM13780	O	HOH	1516	37.100	77.550	67.750	1.00	32.69	O
HETATM13781	O	HOH	1517	18.454	80.218	45.042	1.00	27.67	O
HETATM13782	O	HOH	1518	15.047	70.515	82.172	1.00	29.61	O
HETATM13783	O	HOH	1519	20.209	61.262	57.149	1.00	30.34	O
HETATM13784	O	HOH	1520	21.905	61.286	89.619	1.00	25.41	O
HETATM13785	O	HOH	1521	-5.112	39.228	69.019	1.00	27.48	O
HETATM13786	O	HOH	1522	18.656	83.914	93.330	1.00	39.43	O
HETATM13787	O	HOH	1523	-5.112	42.308	75.645	1.00	29.09	O
HETATM13788	O	HOH	1524	16.012	36.465	38.219	1.00	30.46	O
HETATM13789	O	HOH	1525	12.622	33.287	55.471	1.00	30.40	O
HETATM13790	O	HOH	1526	43.933	55.414	44.720	1.00	30.17	O
HETATM13791	O	HOH	1527	-19.114	58.033	80.111	1.00	31.52	O
HETATM13792	O	HOH	1528	-16.225	64.394	58.460	1.00	28.41	O
HETATM13793	O	HOH	1529	20.877	56.886	15.530	1.00	27.28	O
HETATM13794	O	HOH	1530	10.441	91.599	86.540	1.00	32.96	O
HETATM13795	O	HOH	1531	3.398	90.007	28.057	1.00	27.30	O
HETATM13796	O	HOH	1532	11.285	48.562	36.649	1.00	30.54	O
HETATM13797	O	HOH	1533	-12.391	46.015	97.892	1.00	26.09	O
HETATM13798	O	HOH	1534	-10.180	85.525	78.684	1.00	46.10	O
HETATM13799	O	HOH	1535	32.115	45.582	72.361	1.00	39.60	O
HETATM13800	O	HOH	1536	-6.877	60.701	56.948	1.00	35.97	O
HETATM13801	O	HOH	1537	51.514	65.634	45.882	1.00	29.57	O
HETATM13802	O	HOH	1538	24.662	91.875	56.746	1.00	30.51	O
HETATM13803	O	HOH	1539	22.562	79.542	43.491	1.00	40.65	O
HETATM13804	O	HOH	1540	18.621	31.096	45.626	1.00	26.54	O
HETATM13805	O	HOH	1541	38.414	63.085	78.601	1.00	37.89	O
HETATM13806	O	HOH	1542	31.614	35.748	67.478	1.00	38.94	O
HETATM13807	O	HOH	1543	10.583	65.340	62.425	1.00	27.72	O
HETATM13808	O	HOH	1544	-13.702	73.001	85.131	1.00	23.40	O
HETATM13809	O	HOH	1545	-10.600	40.312	59.644	1.00	39.88	O
HETATM13810	O	HOH	1546	-8.734	87.053	70.141	1.00	35.41	O
HETATM13811	O	HOH	1547	4.986	92.515	21.953	1.00	39.72	O
HETATM13812	O	HOH	1548	2.298	89.763	38.471	1.00	33.57	O
HETATM13813	O	HOH	1549	23.806	24.575	65.555	1.00	30.40	O
HETATM13814	O	HOH	1550	4.845	65.292	60.095	1.00	37.84	O
HETATM13815	O	HOH	1551	8.205	67.667	16.070	1.00	28.23	O
HETATM13816	O	HOH	1552	13.385	73.882	87.467	1.00	32.50	O
HETATM13817	O	HOH	1553	-13.344	42.152	51.723	1.00	29.13	O
HETATM13818	O	HOH	1554	-15.895	57.944	43.089	1.00	32.04	O
HETATM13819	O	HOH	1555	28.275	74.407	35.033	1.00	40.76	O
HETATM13820	O	HOH	1556	-19.162	58.366	68.975	1.00	28.74	O
HETATM13821	O	HOH	1557	10.814	83.132	35.416	1.00	30.20	O
HETATM13822	O	HOH	1558	-16.912	62.189	56.250	1.00	34.33	O
HETATM13823	O	HOH	1559	-8.501	42.273	60.992	1.00	34.62	O
HETATM13824	O	HOH	1560	1.104	46.906	20.233	1.00	48.30	O
HETATM13825	O	HOH	1561	19.253	85.123	31.996	1.00	32.75	O
HETATM13826	O	HOH	1562	-0.348	49.368	94.086	1.00	26.11	O
HETATM13827	O	HOH	1563	-21.307	54.575	67.843	1.00	45.09	O
HETATM13828	O	HOH	1564	7.696	56.350	61.452	1.00	33.85	O
HETATM13829	O	HOH	1565	28.219	39.159	34.090	1.00	30.81	O
HETATM13830	O	HOH	1566	22.664	84.995	89.765	1.00	29.29	O
HETATM13831	O	HOH	1567	20.815	30.155	44.332	1.00	34.48	O
HETATM13832	O	HOH	1568	3.871	31.999	96.209	1.00	34.70	O
HETATM13833	O	HOH	1569	9.704	61.060	60.353	1.00	31.60	O







HETATM13914	O	HOH	1650	20.563	63.309	51.588	1.00	19.28	O
HETATM13915	O	HOH	1651	10.223	66.667	25.667	1.00	23.13	O
HETATM13916	O	HOH	1652	-10.755	66.252	61.594	1.00	22.10	O
HETATM13917	O	HOH	1653	-3.417	50.007	51.350	1.00	24.57	O
HETATM13918	O	HOH	1654	-10.240	60.678	29.295	1.00	21.17	O
HETATM13919	O	HOH	1655	9.051	52.793	65.706	1.00	24.62	O
HETATM13920	O	HOH	1656	17.140	70.240	56.820	1.00	27.53	O
HETATM13921	O	HOH	1657	-3.843	39.058	38.283	1.00	35.78	O
HETATM13922	O	HOH	1658	29.495	67.755	49.277	1.00	26.93	O
HETATM13923	O	HOH	1659	-13.012	51.166	34.310	1.00	22.28	O
HETATM13924	O	HOH	1660	-9.587	57.823	30.538	1.00	24.96	O
HETATM13925	O	HOH	1661	25.150	63.060	69.661	1.00	29.02	O
HETATM13926	O	HOH	1662	20.561	76.980	94.356	1.00	42.72	O
HETATM13927	O	HOH	1663	-8.657	70.926	63.450	1.00	25.31	O
HETATM13928	O	HOH	1664	1.861	36.426	51.922	1.00	27.80	O
HETATM13929	O	HOH	1665	13.241	46.202	85.067	1.00	20.85	O
HETATM13930	O	HOH	1666	6.513	56.303	96.689	1.00	31.77	O
HETATM13931	O	HOH	1667	3.083	66.405	57.947	1.00	32.17	O
HETATM13932	O	HOH	1668	4.787	31.791	58.818	1.00	27.67	O
HETATM13933	O	HOH	1669	37.323	68.659	75.688	1.00	43.86	O
HETATM13934	O	HOH	1670	12.562	78.201	46.088	1.00	24.28	O
HETATM13935	O	HOH	1671	3.283	86.170	19.045	1.00	31.59	O
HETATM13936	O	HOH	1672	-5.769	60.356	54.667	1.00	29.48	O
HETATM13937	O	HOH	1673	-6.508	88.002	73.074	1.00	33.30	O
HETATM13938	O	HOH	1674	30.611	36.385	74.891	1.00	32.76	O
HETATM13939	O	HOH	1675	-14.174	55.809	58.225	1.00	26.46	O
HETATM13940	O	HOH	1676	-4.065	101.567	46.061	1.00	23.83	O
HETATM13941	O	HOH	1677	34.204	29.530	66.929	1.00	40.14	O
HETATM13942	O	HOH	1678	12.896	50.028	30.761	1.00	24.88	O
HETATM13943	O	HOH	1679	28.947	92.061	74.007	1.00	30.40	O
HETATM13944	O	HOH	1680	33.683	87.967	76.052	1.00	30.41	O
HETATM13945	O	HOH	1681	41.360	48.578	48.730	1.00	26.88	O
HETATM13946	O	HOH	1682	8.757	91.018	88.740	1.00	29.59	O
HETATM13947	O	HOH	1683	28.647	46.479	22.935	1.00	34.59	O
HETATM13948	O	HOH	1684	22.648	48.119	85.453	1.00	30.70	O
HETATM13949	O	HOH	1685	-16.194	57.602	83.677	1.00	20.73	O
HETATM13950	O	HOH	1686	30.572	67.258	69.746	1.00	28.01	O
HETATM13951	O	HOH	1687	-5.116	65.627	59.300	1.00	26.10	O
HETATM13952	O	HOH	1688	41.109	45.096	48.034	1.00	28.49	O
HETATM13953	O	HOH	1689	11.684	61.905	56.290	1.00	23.61	O
HETATM13954	O	HOH	1690	40.124	74.418	85.323	1.00	33.04	O
HETATM13955	O	HOH	1691	-6.425	84.025	63.346	1.00	25.28	O
HETATM13956	O	HOH	1692	29.109	68.641	53.520	1.00	26.44	O
HETATM13957	O	HOH	1693	39.533	53.331	56.258	1.00	23.98	O
HETATM13958	O	HOH	1694	35.437	66.924	39.407	1.00	27.41	O
HETATM13959	O	HOH	1695	27.127	35.394	51.405	1.00	26.49	O
HETATM13960	O	HOH	1696	6.854	82.344	57.771	1.00	26.65	O
HETATM13961	O	HOH	1697	-17.988	65.745	61.884	1.00	37.44	O
HETATM13962	O	HOH	1698	-13.776	68.099	89.550	1.00	33.97	O
HETATM13963	O	HOH	1699	-13.812	58.377	99.022	1.00	37.02	O
HETATM13964	O	HOH	1700	22.996	62.783	59.745	1.00	27.95	O
HETATM13965	O	HOH	1701	31.123	83.793	44.844	1.00	37.47	O
HETATM13966	O	HOH	1702	22.258	49.675	40.707	1.00	30.56	O
HETATM13967	O	HOH	1703	23.896	57.843	36.009	1.00	33.88	O
HETATM13968	O	HOH	1704	-14.206	83.665	67.933	1.00	31.70	O
HETATM13969	O	HOH	1705	26.761	52.662	79.393	1.00	24.32	O
HETATM13970	O	HOH	1706	17.485	68.677	63.767	1.00	34.07	O
HETATM13971	O	HOH	1707	35.888	52.266	34.795	1.00	30.26	O
HETATM13972	O	HOH	1708	-0.814	86.247	96.670	1.00	42.56	O
HETATM13973	O	HOH	1709	-22.432	72.389	61.532	1.00	32.84	O
HETATM13974	O	HOH	1710	20.677	47.439	25.846	1.00	38.41	O
HETATM13975	O	HOH	1711	-5.411	69.696	59.785	1.00	30.08	O
HETATM13976	O	HOH	1712	23.123	25.861	67.527	1.00	25.76	O
HETATM13977	O	HOH	1713	-19.484	56.123	69.860	1.00	37.87	O
HETATM13978	O	HOH	1714	9.076	69.525	33.454	1.00	40.13	O
HETATM13979	O	HOH	1715	19.188	78.431	90.217	1.00	42.73	O
HETATM13980	O	HOH	1716	15.477	23.422	60.957	1.00	34.08	O
HETATM13981	O	HOH	1717	-13.238	48.556	33.957	1.00	33.83	O
HETATM13982	O	HOH	1718	26.878	75.682	37.278	1.00	31.87	O
HETATM13983	O	HOH	1719	24.305	64.540	89.297	1.00	28.52	O
HETATM13984	O	HOH	1720	19.752	31.552	75.023	1.00	34.67	O
HETATM13985	O	HOH	1721	11.515	35.580	36.767	1.00	36.93	O
HETATM13986	O	HOH	1722	7.312	55.946	21.240	1.00	36.44	O
HETATM13987	O	HOH	1723	30.365	68.321	33.450	1.00	30.10	O
HETATM13988	O	HOH	1724	40.757	61.501	49.543	1.00	37.96	O
HETATM13989	O	HOH	1725	-9.873	85.215	56.599	1.00	29.77	O
HETATM13990	O	HOH	1726	14.508	55.760	96.219	1.00	34.97	O
HETATM13991	O	HOH	1727	12.405	79.948	79.318	1.00	24.68	O
HETATM13992	O	HOH	1728	10.720	34.737	33.805	1.00	41.05	O
HETATM13993	O	HOH	1729	-16.974	60.480	41.953	1.00	35.69	O



HETATM13994	O	HOH	1730	-8.405	68.728	98.557	1.00	27.99	O
HETATM13995	O	HOH	1731	11.133	85.519	49.383	1.00	29.40	O
HETATM13996	O	HOH	1732	-1.467	81.189	56.643	1.00	24.87	O
HETATM13997	O	HOH	1733	-4.838	87.744	29.599	1.00	33.25	O
HETATM13998	O	HOH	1734	35.173	73.009	75.514	1.00	43.58	O
HETATM13999	O	HOH	1735	40.676	44.130	50.396	1.00	28.32	O
HETATM14000	O	HOH	1736	10.559	76.253	86.517	1.00	30.96	O
HETATM14001	O	HOH	1737	23.932	34.975	50.827	1.00	31.88	O
HETATM14002	O	HOH	1738	1.454	53.738	17.589	1.00	32.88	O
HETATM14003	O	HOH	1739	24.726	62.237	72.309	1.00	31.44	O
HETATM14004	O	HOH	1740	29.241	55.869	29.335	1.00	33.75	O
HETATM14005	O	HOH	1741	16.821	36.038	89.235	1.00	36.14	O
HETATM14006	O	HOH	1742	8.072	93.651	34.129	1.00	25.25	O
HETATM14007	O	HOH	1743	37.714	67.227	56.877	1.00	27.21	O
HETATM14008	O	HOH	1744	-20.949	77.350	66.256	1.00	34.66	O
HETATM14009	O	HOH	1745	-14.254	50.793	50.342	1.00	30.53	O
HETATM14010	O	HOH	1746	-5.226	37.953	97.047	1.00	39.63	O
HETATM14011	O	HOH	1747	-13.812	69.275	92.343	1.00	28.55	O
HETATM14012	O	HOH	1748	2.107	80.677	19.831	1.00	36.98	O
HETATM14013	O	HOH	1749	9.130	86.899	29.095	1.00	42.40	O
HETATM14014	O	HOH	1750	-12.765	49.903	103.351	1.00	37.83	O
HETATM14015	O	HOH	1751	-16.317	41.411	47.143	1.00	33.86	O
HETATM14016	O	HOH	1752	14.317	55.515	65.695	1.00	28.44	O
HETATM14017	O	HOH	1753	23.375	18.119	64.297	1.00	33.29	O
HETATM14018	O	HOH	1754	-11.421	75.432	44.618	1.00	36.73	O
HETATM14019	O	HOH	1755	3.318	72.362	81.659	1.00	26.63	O
HETATM14020	O	HOH	1756	1.516	76.012	86.973	1.00	29.68	O
HETATM14021	O	HOH	1757	20.109	40.203	50.528	1.00	29.51	O
HETATM14022	O	HOH	1758	20.442	59.700	16.877	1.00	36.59	O
HETATM14023	O	HOH	1759	8.469	78.705	89.654	1.00	44.05	O
HETATM14024	O	HOH	1760	22.636	66.484	27.559	1.00	32.88	O
HETATM14025	O	HOH	1761	8.384	75.874	82.982	1.00	40.04	O
HETATM14026	O	HOH	1762	-6.564	74.104	103.073	1.00	30.90	O
HETATM14027	O	HOH	1763	-12.970	52.313	42.359	1.00	35.42	O
HETATM14028	O	HOH	1764	-8.091	56.244	32.344	1.00	37.47	O
HETATM14029	O	HOH	1765	16.956	26.261	70.150	1.00	31.85	O
HETATM14030	O	HOH	1766	21.124	54.573	35.340	1.00	35.72	O
HETATM14031	O	HOH	1767	27.862	68.249	88.396	1.00	38.78	O
HETATM14032	O	HOH	1768	7.722	42.786	42.037	1.00	27.42	O
HETATM14033	O	HOH	1769	16.465	66.920	85.929	1.00	25.93	O
HETATM14034	O	HOH	1770	36.775	65.779	83.909	1.00	30.46	O
HETATM14035	O	HOH	1771	15.828	75.856	23.667	1.00	38.95	O
HETATM14036	O	HOH	1772	-14.582	83.353	28.353	1.00	36.43	O
HETATM14037	O	HOH	1773	39.231	50.557	45.373	1.00	35.22	O
HETATM14038	O	HOH	1774	7.766	64.650	15.102	1.00	39.30	O
HETATM14039	O	HOH	1775	12.357	53.552	36.285	1.00	30.11	O
HETATM14040	O	HOH	1776	3.681	101.448	57.674	1.00	34.73	O
HETATM14041	O	HOH	1777	4.807	97.910	75.003	1.00	36.39	O
HETATM14042	O	HOH	1778	27.734	56.369	24.433	1.00	31.90	O
HETATM14043	O	HOH	1779	13.384	33.516	84.523	1.00	31.05	O
HETATM14044	O	HOH	1780	14.803	99.485	88.642	1.00	41.19	O
HETATM14045	O	HOH	1781	-8.008	78.036	20.414	1.00	33.38	O
HETATM14046	O	HOH	1782	9.438	34.759	38.537	1.00	27.61	O
HETATM14047	O	HOH	1783	35.403	83.411	68.720	1.00	37.71	O
HETATM14048	O	HOH	1784	-14.443	75.509	79.203	1.00	41.29	O
HETATM14049	O	HOH	1785	31.532	69.576	53.388	1.00	27.98	O
HETATM14050	O	HOH	1786	7.040	73.480	52.196	1.00	37.34	O
HETATM14051	O	HOH	1787	-20.068	67.657	46.561	1.00	41.85	O
HETATM14052	O	HOH	1788	7.649	31.746	86.053	1.00	52.49	O
HETATM14053	O	HOH	1789	25.303	61.070	33.900	1.00	40.13	O
HETATM14054	O	HOH	1790	-11.494	39.757	88.019	1.00	38.11	O
HETATM14055	O	HOH	1791	25.429	58.193	87.475	1.00	30.98	O
HETATM14056	O	HOH	1792	36.298	34.692	35.540	1.00	32.55	O
HETATM14057	O	HOH	1793	3.565	32.743	51.540	1.00	41.18	O
HETATM14058	O	HOH	1794	-6.107	86.475	78.014	1.00	29.34	O
HETATM14059	O	HOH	1795	13.794	65.670	61.039	1.00	38.92	O
HETATM14060	O	HOH	1796	-3.666	58.885	56.195	1.00	39.51	O
HETATM14061	O	HOH	1797	2.012	63.183	56.583	1.00	35.39	O
HETATM14062	O	HOH	1798	40.154	41.974	37.269	1.00	39.68	O
HETATM14063	O	HOH	1799	28.078	29.309	36.826	1.00	38.96	O
HETATM14064	O	HOH	1800	-9.760	67.775	95.099	1.00	30.48	O
HETATM14065	O	HOH	1801	-13.872	76.533	52.444	1.00	29.65	O
HETATM14066	O	HOH	1802	0.673	56.102	15.810	1.00	38.55	O
HETATM14067	O	HOH	1803	29.104	66.583	61.705	1.00	39.95	O
HETATM14068	O	HOH	1804	-4.847	53.711	22.266	1.00	38.33	O
HETATM14069	O	HOH	1805	-9.072	77.666	94.539	1.00	34.92	O
HETATM14070	O	HOH	1806	7.587	41.510	23.797	1.00	41.81	O
HETATM14071	O	HOH	1807	14.712	57.006	41.183	1.00	27.33	O
HETATM14072	O	HOH	1808	1.338	76.972	73.575	1.00	44.14	O
HETATM14073	O	HOH	1809	12.020	72.174	57.717	1.00	43.20	O



HETATM14074	O	HOH	1810	10.276	82.477	98.058	1.00	41.19	O
HETATM14075	O	HOH	1811	36.060	84.974	66.376	1.00	41.65	O
HETATM14076	O	HOH	1812	-8.253	88.580	45.562	1.00	40.81	O
HETATM14077	O	HOH	1813	37.295	25.223	62.199	1.00	39.20	O
HETATM14078	O	HOH	1814	27.379	61.825	87.888	1.00	37.71	O
HETATM14079	O	HOH	1815	-3.347	81.463	74.078	1.00	32.01	O
HETATM14080	O	HOH	1816	5.454	44.992	21.213	1.00	35.31	O
HETATM14081	O	HOH	1817	29.801	86.369	55.826	1.00	34.41	O
HETATM14082	O	HOH	1818	16.520	32.311	43.769	1.00	36.23	O
HETATM14083	O	HOH	1819	26.329	24.384	66.411	1.00	31.85	O
HETATM14084	O	HOH	1820	8.482	60.681	97.130	1.00	32.83	O
HETATM14085	O	HOH	1821	24.902	61.340	87.841	1.00	36.43	O
HETATM14086	O	HOH	1822	40.969	70.792	40.888	1.00	41.94	O
HETATM14087	O	HOH	1823	5.612	60.278	57.771	1.00	42.97	O
HETATM14088	O	HOH	1824	17.852	47.418	26.867	1.00	36.73	O
HETATM14089	O	HOH	1825	14.340	83.683	97.988	1.00	38.77	O
HETATM14090	O	HOH	1826	13.006	66.691	58.088	1.00	39.66	O
HETATM14091	O	HOH	1827	-0.046	72.258	81.005	1.00	42.37	O
HETATM14092	O	HOH	1828	-19.384	55.737	81.567	1.00	33.66	O
HETATM14093	O	HOH	1829	28.424	60.400	24.945	1.00	44.80	O
HETATM14094	O	HOH	1830	-5.425	72.529	60.438	1.00	34.20	O
HETATM14095	O	HOH	1831	-18.041	52.788	82.735	1.00	42.01	O
HETATM14096	O	HOH	1832	20.856	32.411	71.048	1.00	34.98	O
HETATM14097	O	HOH	1833	-18.141	55.734	85.166	1.00	37.39	O
HETATM14098	O	HOH	1834	7.157	75.809	80.466	1.00	37.00	O
HETATM14099	O	HOH	1835	9.240	93.847	29.650	1.00	44.45	O
HETATM14100	O	HOH	1836	-13.204	72.277	88.800	1.00	28.17	O
HETATM14101	O	HOH	1837	37.429	70.019	57.066	1.00	30.06	O
HETATM14102	O	HOH	1838	35.051	31.910	68.964	1.00	33.77	O
HETATM14103	O	HOH	1839	40.879	30.684	49.706	1.00	40.31	O
HETATM14104	O	HOH	1840	15.969	67.447	18.002	1.00	40.72	O
HETATM14105	O	HOH	1841	0.442	92.263	62.343	1.00	31.66	O
HETATM14106	O	HOH	1842	-9.605	81.548	39.212	1.00	42.50	O
HETATM14107	O	HOH	1843	-17.807	57.080	66.420	1.00	30.00	O
HETATM14108	O	HOH	1844	11.056	100.530	90.912	1.00	43.67	O
HETATM14109	O	HOH	1845	6.850	66.953	101.364	1.00	33.11	O
HETATM14110	O	HOH	1846	9.967	45.568	35.217	1.00	27.40	O
HETATM14111	O	HOH	1847	18.628	28.418	47.171	1.00	40.89	O
HETATM14112	O	HOH	1848	16.529	86.173	95.347	1.00	40.26	O
HETATM14113	O	HOH	1849	7.527	66.728	57.187	1.00	41.61	O
HETATM14114	O	HOH	1850	12.199	51.743	64.509	1.00	32.81	O
HETATM14115	O	HOH	1851	24.916	68.671	93.082	1.00	29.13	O
HETATM14116	O	HOH	1852	36.313	70.760	74.763	1.00	28.75	O
HETATM14117	O	HOH	1853	-14.712	61.178	30.728	1.00	36.37	O
HETATM14118	O	HOH	1854	-18.203	62.069	35.218	1.00	41.12	O
HETATM14119	O	HOH	1855	-1.381	32.964	63.877	1.00	43.60	O
HETATM14120	O	HOH	1856	5.165	94.357	72.611	1.00	36.42	O
HETATM14121	O	HOH	1857	32.634	62.050	86.548	1.00	32.91	O
HETATM14122	O	HOH	1858	23.236	82.154	26.931	1.00	37.33	O
HETATM14123	O	HOH	1859	2.173	60.886	60.063	1.00	36.91	O
HETATM14124	O	HOH	1860	30.749	78.946	90.690	1.00	52.95	O
HETATM14125	O	HOH	1861	-0.801	33.914	86.014	1.00	33.95	O
HETATM14126	O	HOH	1862	7.568	95.118	74.172	1.00	35.17	O
HETATM14127	O	HOH	1863	36.279	71.709	61.151	1.00	31.95	O
HETATM14128	O	HOH	1864	23.901	89.399	91.711	1.00	40.72	O
HETATM14129	O	HOH	1865	37.098	64.812	63.785	1.00	36.01	O
HETATM14130	O	HOH	1866	12.469	70.561	26.050	1.00	33.05	O
HETATM14131	O	HOH	1867	6.664	110.618	55.830	1.00	40.46	O
HETATM14132	O	HOH	1868	11.001	101.250	71.842	1.00	42.01	O
HETATM14133	O	HOH	1869	44.551	56.798	42.146	1.00	33.68	O
HETATM14134	O	HOH	1870	-1.922	68.441	95.826	1.00	43.78	O
HETATM14135	O	HOH	1871	23.251	96.885	55.149	1.00	44.22	O
HETATM14136	O	HOH	1872	12.950	75.327	54.944	1.00	31.34	O
HETATM14137	O	HOH	1873	43.645	35.622	57.068	1.00	36.48	O
HETATM14138	O	HOH	1874	-1.248	73.423	13.133	1.00	41.95	O
HETATM14139	O	HOH	1875	-20.588	69.879	32.398	1.00	37.40	O
HETATM14140	O	HOH	1876	17.224	64.492	60.414	1.00	45.67	O
HETATM14141	O	HOH	1877	10.805	74.786	52.114	1.00	32.08	O
HETATM14142	O	HOH	1878	-24.285	73.558	63.817	1.00	38.88	O
HETATM14143	O	HOH	1879	-10.627	62.462	98.974	1.00	35.42	O
HETATM14144	O	HOH	1880	-12.841	46.432	95.132	1.00	36.82	O
HETATM14145	O	HOH	1881	-29.686	69.873	62.712	1.00	41.68	O
HETATM14146	O	HOH	1882	-18.538	64.911	70.302	1.00	33.49	O
HETATM14147	O	HOH	1883	39.998	67.804	52.898	1.00	45.51	O
HETATM14148	O	HOH	1884	-20.605	70.282	39.081	1.00	42.03	O
HETATM14149	O	HOH	1885	12.295	107.484	67.027	1.00	39.59	O
HETATM14150	O	HOH	1886	0.925	90.328	27.416	1.00	22.66	O
HETATM14151	O	HOH	1887	48.038	65.194	52.707	1.00	40.94	O
HETATM14152	O	HOH	1888	27.900	70.551	89.886	1.00	37.65	O
HETATM14153	O	HOH	1889	10.882	33.613	87.755	1.00	31.63	O



HETATM14154	O	HOH	1890	8.702	69.590	53.432	1.00	45.30	O
HETATM14155	O	HOH	1891	0.763	69.962	82.171	1.00	35.15	O
HETATM14156	O	HOH	1892	6.481	23.740	65.192	1.00	55.38	O
HETATM14157	O	HOH	1893	36.421	63.118	34.314	1.00	37.72	O
HETATM14158	O	HOH	1894	30.692	60.808	71.501	1.00	47.58	O
HETATM14159	O	HOH	1895	-22.710	49.346	51.021	1.00	44.82	O
HETATM14160	O	HOH	1896	5.944	112.865	61.066	1.00	43.43	O
HETATM14161	O	HOH	1897	27.062	88.570	51.273	1.00	34.67	O
HETATM14162	O	HOH	1898	-16.850	73.051	39.172	1.00	36.81	O
HETATM14163	O	HOH	1899	25.095	53.937	87.681	1.00	36.18	O
HETATM14164	O	HOH	1900	-3.419	99.656	44.473	1.00	45.45	O
HETATM14165	O	HOH	1901	-22.421	65.773	83.530	1.00	45.96	O
HETATM14166	O	HOH	1902	21.394	21.794	68.143	1.00	34.90	O
HETATM14167	O	HOH	1903	-2.710	76.811	87.251	1.00	41.39	O
HETATM14168	O	HOH	1904	7.253	74.457	75.277	1.00	36.10	O
HETATM14169	O	HOH	1905	-19.168	68.285	62.845	1.00	35.62	O
HETATM14170	O	HOH	1906	4.359	24.244	63.629	1.00	39.34	O
HETATM14171	O	HOH	1907	22.930	33.012	72.543	1.00	41.78	O
HETATM14172	O	HOH	1908	-9.068	87.517	41.805	1.00	37.78	O
HETATM14173	O	HOH	1909	45.472	41.387	45.564	1.00	38.40	O
HETATM14174	O	HOH	1910	-7.589	40.404	57.427	1.00	32.29	O
HETATM14175	O	HOH	1911	-1.370	36.135	41.869	1.00	40.21	O
HETATM14176	O	HOH	1912	-21.128	61.075	69.890	1.00	41.60	O
HETATM14177	O	HOH	1913	-5.642	43.778	99.129	1.00	43.48	O
HETATM14178	O	HOH	1914	26.982	62.804	25.202	1.00	43.97	O
HETATM14179	O	HOH	1915	-15.000	47.151	34.340	1.00	35.04	O
HETATM14180	O	HOH	1916	-18.928	54.114	33.835	1.00	37.65	O
HETATM14181	O	HOH	1917	-11.356	60.317	26.441	1.00	45.50	O
HETATM14182	O	HOH	1918	35.944	48.416	33.526	1.00	41.46	O
HETATM14183	O	HOH	1919	-17.629	55.915	41.859	1.00	44.60	O
HETATM14184	O	HOH	1920	-10.668	38.523	39.104	1.00	43.70	O
HETATM14185	O	HOH	1921	3.518	38.463	98.081	1.00	37.13	O
HETATM14186	O	HOH	1922	-1.803	49.834	101.583	1.00	37.44	O
HETATM14187	O	HOH	1923	36.525	79.061	41.099	1.00	34.35	O
HETATM14188	O	HOH	1924	43.241	60.389	60.933	1.00	50.57	O
HETATM14189	O	HOH	1925	29.414	53.234	89.004	1.00	38.91	O
HETATM14190	O	HOH	1926	29.446	63.223	29.002	1.00	43.35	O
HETATM14191	O	HOH	1927	-8.781	92.504	60.222	1.00	39.08	O
HETATM14192	O	HOH	1928	16.529	64.176	63.138	1.00	42.53	O
HETATM14193	O	HOH	1929	-9.973	55.130	17.347	1.00	46.90	O
HETATM14194	O	HOH	1930	17.007	99.006	86.519	1.00	35.10	O
HETATM14195	O	HOH	1931	-8.485	70.442	19.531	1.00	40.27	O
HETATM14196	O	HOH	1932	13.565	33.329	89.429	1.00	42.45	O
HETATM14197	O	HOH	1933	29.343	30.321	75.192	1.00	38.44	O
HETATM14198	O	HOH	1934	29.881	59.913	73.756	1.00	32.35	O
HETATM14199	O	HOH	1935	-0.577	65.953	12.932	1.00	43.42	O
HETATM14200	O	HOH	1936	7.781	33.139	95.346	1.00	50.34	O
HETATM14201	O	HOH	1937	7.172	37.297	24.695	1.00	39.85	O
HETATM14202	O	HOH	1938	33.502	37.738	31.475	1.00	38.90	O
HETATM14203	O	HOH	1939	3.356	46.489	22.269	1.00	48.49	O
HETATM14204	O	HOH	1940	-13.270	52.527	27.408	1.00	45.66	O
HETATM14205	O	HOH	1941	-22.904	52.799	65.560	1.00	46.15	O
HETATM14206	O	HOH	1942	30.376	74.373	50.240	1.00	46.15	O
HETATM14207	O	HOH	1943	40.025	74.835	46.658	1.00	40.40	O
HETATM14208	O	HOH	1944	-6.883	90.962	32.245	1.00	47.45	O
HETATM14209	O	HOH	1945	-10.488	42.525	34.337	1.00	33.37	O
HETATM14210	O	HOH	1946	24.360	44.658	87.099	1.00	49.02	O
HETATM14211	O	HOH	1947	19.485	51.145	33.866	1.00	50.09	O
HETATM14212	O	HOH	1948	-6.774	39.326	78.988	1.00	45.93	O
HETATM14213	O	HOH	1949	-15.424	52.188	33.570	1.00	30.95	O
HETATM14214	O	HOH	1950	11.692	66.513	95.247	1.00	35.41	O
HETATM14215	O	HOH	1951	-8.236	92.271	52.484	1.00	38.06	O
HETATM14216	O	HOH	1952	28.007	56.947	26.947	1.00	40.43	O
HETATM14217	O	HOH	1953	16.480	62.104	14.209	1.00	39.35	O
HETATM14218	O	HOH	1954	53.908	54.378	53.514	1.00	44.30	O
HETATM14219	O	HOH	1955	26.733	71.170	32.398	1.00	30.13	O
HETATM14220	O	HOH	1956	-7.242	80.363	98.271	1.00	35.32	O
HETATM14221	O	HOH	1957	-18.319	61.393	22.603	1.00	48.35	O
HETATM14222	O	HOH	1958	-3.034	39.277	40.919	1.00	41.71	O
HETATM14223	O	HOH	1959	43.809	44.004	48.501	1.00	39.40	O
HETATM14224	O	HOH	1960	34.648	54.574	80.715	1.00	37.73	O
HETATM14225	O	HOH	1961	43.825	31.506	45.111	1.00	40.14	O
HETATM14226	O	HOH	1962	17.844	38.922	22.217	1.00	46.78	O
HETATM14227	O	HOH	1963	-19.622	61.695	38.554	1.00	45.54	O
HETATM14228	O	HOH	1964	9.113	105.110	54.313	1.00	43.60	O
HETATM14229	O	HOH	1965	29.485	71.037	34.474	1.00	40.58	O
HETATM14230	O	HOH	1966	26.009	80.622	90.341	1.00	42.56	O
HETATM14231	O	HOH	1967	17.030	102.309	58.603	1.00	41.32	O
HETATM14232	O	HOH	1968	45.141	47.311	66.626	1.00	43.57	O
HETATM14233	O	HOH	1969	7.368	23.365	56.243	1.00	41.06	O

HOH 1890 8.702 69.590 53.432 1.00 45.30 O



HETATM14234	O	HOH	1970	14.486	40.211	91.869	1.00	34.81	O
HETATM14235	O	HOH	1971	-20.722	74.267	60.545	1.00	35.12	O
HETATM14236	O	HOH	1972	4.285	84.483	97.433	1.00	40.20	O
HETATM14237	O	HOH	1973	21.478	78.841	96.496	1.00	41.99	O
HETATM14238	O	HOH	1974	-7.777	81.674	37.439	1.00	40.66	O
HETATM14239	O	HOH	1975	-25.445	52.598	84.129	1.00	46.07	O
HETATM14240	O	HOH	1976	19.474	112.607	59.870	1.00	42.62	O
HETATM14241	O	HOH	1977	-9.978	34.854	84.428	1.00	49.47	O
HETATM14242	O	HOH	1978	28.771	85.865	79.167	1.00	46.42	O
HETATM14243	O	HOH	1979	1.990	93.440	40.271	1.00	34.42	O
HETATM14244	O	HOH	1980	11.587	22.532	53.291	1.00	40.92	O
HETATM14245	O	HOH	1981	-7.863	81.465	92.251	1.00	48.50	O
HETATM14246	O	HOH	1982	1.768	94.802	97.576	1.00	48.48	O
HETATM14247	O	HOH	1983	-20.580	61.236	86.830	1.00	43.57	O
HETATM14248	O	HOH	1984	24.362	34.068	23.075	1.00	40.05	O
HETATM14249	O	HOH	1985	5.904	46.181	25.221	1.00	40.49	O
HETATM14250	O	HOH	1986	13.658	22.912	68.640	1.00	37.38	O
HETATM14251	O	HOH	1987	24.920	27.245	38.549	1.00	43.56	O
HETATM14252	O	HOH	1988	23.408	88.675	37.344	1.00	33.81	O
HETATM14253	O	HOH	1989	-20.672	42.790	77.789	1.00	42.73	O
HETATM14254	O	HOH	1990	12.605	88.286	27.527	1.00	41.01	O
HETATM14255	O	HOH	1991	26.726	57.381	33.172	1.00	35.85	O
HETATM14256	O	HOH	1992	30.489	66.119	50.992	1.00	23.12	O
HETATM14257	O	HOH	1993	5.042	42.651	59.950	1.00	21.29	O
HETATM14258	O	HOH	1994	17.850	57.362	95.863	1.00	25.00	O
HETATM14259	O	HOH	1995	20.539	52.910	75.926	1.00	21.75	O
HETATM14260	O	HOH	1996	7.960	93.294	75.914	1.00	30.23	O
HETATM14261	O	HOH	1997	4.998	75.626	74.811	1.00	31.26	O
HETATM14262	O	HOH	1998	15.114	50.159	86.824	1.00	24.84	O
HETATM14263	O	HOH	1999	12.306	86.577	67.200	1.00	40.85	O
HETATM14264	O	HOH	2000	19.958	60.494	37.308	1.00	35.66	O
HETATM14265	O	HOH	2001	6.267	57.694	81.971	1.00	30.61	O
HETATM14266	O	HOH	2002	2.746	62.742	63.636	1.00	22.13	O
HETATM14267	O	HOH	2003	27.762	59.115	35.735	1.00	27.18	O
HETATM14268	O	HOH	2004	-11.116	77.989	45.564	1.00	29.14	O
HETATM14269	O	HOH	2005	5.986	73.483	80.956	1.00	25.98	O
HETATM14270	O	HOH	2006	-10.801	84.575	68.471	1.00	29.44	O
HETATM14271	O	HOH	2007	5.580	87.961	42.458	1.00	31.30	O
HETATM14272	O	HOH	2008	-1.924	51.205	93.425	1.00	35.14	O
HETATM14273	O	HOH	2009	36.725	55.297	50.109	1.00	39.40	O
HETATM14274	O	HOH	2010	25.876	80.259	43.065	1.00	32.71	O
HETATM14275	O	HOH	2011	21.546	42.792	52.817	1.00	26.23	O
HETATM14276	O	HOH	2012	-1.587	68.798	82.700	1.00	36.21	O
HETATM14277	O	HOH	2013	10.780	47.138	42.970	1.00	30.48	O
HETATM14278	O	HOH	2014	-18.509	65.483	59.201	1.00	27.86	O
HETATM14279	O	HOH	2015	3.968	56.045	81.232	1.00	42.21	O
HETATM14280	O	HOH	2016	7.033	69.226	36.149	1.00	30.31	O

CONNECT 146113246

CONNECT 477013252

CONNECT 807913258

CONNECT1138813264

CONNECT13241132421324313244

CONNECT1324213241

CONNECT1324313241

CONNECT13244132411324513246

CONNECT1324513244

CONNECT13246 146113244

CONNECT13247132481324913250

CONNECT1324813247

CONNECT1324913247

CONNECT13250132471325113252

CONNECT1325113250

CONNECT13252 477013250

CONNECT13253132541325513256

CONNECT1325413253

CONNECT1325513253

CONNECT13256132531325713258

CONNECT1325713256

CONNECT13258 807913256

CONNECT13259132601326113262

CONNECT1326013259

CONNECT1326113259

CONNECT13262132591326313264

CONNECT1326313262

CONNECT132641138813262

MASTER	318	0	8	88	47	0	0	614276	4	28	132
--------	-----	---	---	----	----	---	---	--------	---	----	-----

END



7-1/7

```

HEADER      LYASE                      30-JUN-00  1F8I
TITLE       CRYSTAL STRUCTURE OF ISOCITRATE
TITLE       2 LYASE:NITROPROPIONATE:GLYOXYLATE COMPLEX FROM MYCOBACTERIUM
TITLE       3 TUBERCULOSIS
COMPND      MOL_ID: 1;
COMPND      2 MOLECULE: ISOCITRATE LYASE;
COMPND      3 CHAIN: A, B, C, D;
COMPND      4 SYNONYM: ICL;
COMPND      5 EC: 4.1.1.3.1;
COMPND      6 ENGINEERED: YES;
COMPND      7 MUTATION: YES
SOURCE      MOL_ID: 1;
SOURCE      2 ORGANISM_SCIENTIFIC: MYCOBACTERIUM TUBERCULOSIS;
SOURCE      3 ORGANISM_COMMON: BACTERIA;
SOURCE      4 STRAIN: H37RV;
SOURCE      5 EXPRESSION_SYSTEM: ESCHERICHIA COLI;
SOURCE      6 EXPRESSION_SYSTEM_COMMON: BACTERIA;
SOURCE      7 EXPRESSION_SYSTEM_VECTOR_TYPE: PLASMID;
SOURCE      8 EXPRESSION_SYSTEM_PLASMID: PET30B
KEYWDS      ALPHA-BETA BARREL, SWAPPED HELICES, CLOSED CONFORMATION
EXPDTA      X-RAY DIFFRACTION
AUTHOR      V.SHARMA,S.SHARMA,K.H.ZU BENTRUP,J.D.MCKINNEY,D.G.RUSSELL,
AUTHOR      2 W.R.JACOBS JR.,J.C.SACCHETTINI
REVDAT      1 30-DEC-00 1F8I 0
JRNL        AUTH V.SHARMA,S.SHARMA,K.H.ZU BENTRUP,J.D.MCKINNEY,
JRNL        AUTH 2 D.G.RUSSELL,W.R.JACOBS JR.,J.C.SACCHETTINI
JRNL        TITL STRUCTURE OF ISOCITRATE LYASE, A PERSISTENCE
JRNL        TITL 2 FACTOR OF MYCOBACTERIUM TUBERCULOSIS
JRNL        REF NAT.STRUCT.BIOL. V. 7 663 2000
JRNL        REFN ASTM NSBIEW US ISSN 1072-8368
REMARK      1
REMARK      2
REMARK      2 RESOLUTION. 2.25 ANGSTROMS.
REMARK      3
REMARK      3 REFINEMENT.
REMARK      3 PROGRAM : CNS 1.0
REMARK      3 AUTHORS : BRUNGER,ADAMS,CLORE,DELANO,GROS,GROSSE-
REMARK      3 : KUNSTLEVE,JIANG,KUSZEWSKI,NILGES, PANNU,
REMARK      3 : READ,RICE,SIMONSON,WARREN
REMARK      3
REMARK      3 REFINEMENT TARGET : ENGH & HUBER
REMARK      3
REMARK      3 DATA USED IN REFINEMENT.
REMARK      3 RESOLUTION RANGE HIGH (ANGSTROMS) : 2.25
REMARK      3 RESOLUTION RANGE LOW (ANGSTROMS) : 35.02
REMARK      3 DATA CUTOFF (SIGMA(F)) : 0.000
REMARK      3 OUTLIER CUTOFF HIGH (RMS(ABS(F))) : NULL
REMARK      3 COMPLETENESS (WORKING+TEST) (%) : 93.3
REMARK      3 NUMBER OF REFLECTIONS : 71739
REMARK      3
REMARK      3 FIT TO DATA USED IN REFINEMENT.
REMARK      3 CROSS-VALIDATION METHOD : THROUGHOUT
REMARK      3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK      3 R VALUE (WORKING SET) : 0.166
REMARK      3 FREE R VALUE : 0.210
REMARK      3 FREE R VALUE TEST SET SIZE (%) : 10.100
REMARK      3 FREE R VALUE TEST SET COUNT : 7263
REMARK      3 ESTIMATED ERROR OF FREE R VALUE : 0.002
REMARK      3
REMARK      3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK      3 TOTAL NUMBER OF BINS USED : 6
REMARK      3 BIN RESOLUTION RANGE HIGH (A) : 2.25
REMARK      3 BIN RESOLUTION RANGE LOW (A) : 2.39
REMARK      3 BIN COMPLETENESS (WORKING+TEST) (%) : 85.70
REMARK      3 REFLECTIONS IN BIN (WORKING SET) : 9753
REMARK      3 BIN R VALUE (WORKING SET) : 0.1920
REMARK      3 BIN FREE R VALUE : 0.2490
REMARK      3 BIN FREE R VALUE TEST SET SIZE (%) : 10.00
REMARK      3 BIN FREE R VALUE TEST SET COUNT : 1078
REMARK      3 ESTIMATED ERROR OF BIN FREE R VALUE : 0.008
REMARK      3
REMARK      3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK      3 PROTEIN ATOMS : 13232
REMARK      3 NUCLEIC ACID ATOMS : 0
REMARK      3 HETEROGEN ATOMS : 56
REMARK      3 SOLVENT ATOMS : 1052
REMARK      3
REMARK      3 B VALUES.
REMARK      3 FROM WILSON PLOT (A**2) : 19.80

```



```

REMARK 3 MEAN B VALUE (OVERALL, A**2) : 26.60
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2) : 3.39000
REMARK 3 B22 (A**2) : 2.02000
REMARK 3 B33 (A**2) : -5.41000
REMARK 3 B12 (A**2) : 0.00000
REMARK 3 B13 (A**2) : 0.00000
REMARK 3 B23 (A**2) : 0.00000
REMARK 3
REMARK 3 ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM LUZZATI PLOT (A) : 0.20
REMARK 3 ESD FROM SIGMAA (A) : 0.150
REMARK 3 LOW RESOLUTION CUTOFF (A) : 5.00
REMARK 3
REMARK 3 CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM C-V LUZZATI PLOT (A) : 0.27
REMARK 3 ESD FROM C-V SIGMAA (A) : 0.24
REMARK 3
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES.
REMARK 3 BOND LENGTHS (A) : 0.005
REMARK 3 BOND ANGLES (DEGREES) : 1.20
REMARK 3 DIHEDRAL ANGLES (DEGREES) : 21.90
REMARK 3 IMPROPER ANGLES (DEGREES) : 0.81
REMARK 3
REMARK 3 ISOTROPIC THERMAL MODEL : RESTRAINED
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. RMS SIGMA
REMARK 3 MAIN-CHAIN BOND (A**2) : 1.08 ; 1.500
REMARK 3 MAIN-CHAIN ANGLE (A**2) : 1.62 ; 2.000
REMARK 3 SIDE-CHAIN BOND (A**2) : 1.87 ; 2.000
REMARK 3 SIDE-CHAIN ANGLE (A**2) : 2.60 ; 2.500
REMARK 3
REMARK 3 BULK SOLVENT MODELING.
REMARK 3 METHOD USED : FLAT MODEL
REMARK 3 KSOL : 0.36
REMARK 3 BSOL : 42.37
REMARK 3
REMARK 3 NCS MODEL : CONSTR
REMARK 3
REMARK 3 NCS RESTRAINTS. RMS SIGMA/WEIGHT
REMARK 3 GROUP 1 POSITIONAL (A) : NULL ; NULL
REMARK 3 GROUP 1 B-FACTOR (A**2) : NULL ; NULL
REMARK 3
REMARK 3 PARAMETER FILE 1 : PROTEIN_REP.PARAM
REMARK 3 PARAMETER FILE 2 : ION.PARAM
REMARK 3 PARAMETER FILE 3 : LIG.PAR
REMARK 3 PARAMETER FILE 4 : WATER_REP.PARAM
REMARK 3 TOPOLOGY FILE 1 : PROTEIN.TOP
REMARK 3 TOPOLOGY FILE 2 : ION.TOP
REMARK 3 TOPOLOGY FILE 3 : LIG.TOP
REMARK 3 TOPOLOGY FILE 4 : WATER.TOP
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS: NULL
REMARK 4
REMARK 4 1F8I COMPLIES WITH FORMAT V. 2.3, 09-JULY-1998
REMARK 100
REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY RCSE ON 14-JUL-2000.
REMARK 100 THE RCSB ID CODE IS RCSB011373.
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200 EXPERIMENT TYPE : X-RAY DIFFRACTION
REMARK 200 DATE OF DATA COLLECTION : 03-MAR-2000
REMARK 200 TEMPERATURE (KELVIN) : 100.0
REMARK 200 PH : 8.00
REMARK 200 NUMBER OF CRYSTALS USED : 1
REMARK 200
REMARK 200 SYNCHROTRON (Y/N) : Y
REMARK 200 RADIATION SOURCE : APS
REMARK 200 BEAMLINE : 14BMC
REMARK 200 X-RAY GENERATOR MODEL : NULL
REMARK 200 MONOCHROMATIC OR LAUE (M/L) : M
REMARK 200 WAVELENGTH OR RANGE (A) : 1.0
REMARK 200 MONOCHROMATOR : NULL
REMARK 200 OPTICS : NULL
REMARK 200
REMARK 200 DETECTOR TYPE : CCD
REMARK 200 DETECTOR MANUFACTURER : ADSC QUANTUM 4
REMARK 200 INTENSITY-INTEGRATION SOFTWARE : DENZO
REMARK 200 DATA SCALING SOFTWARE : SCALEPACK

```



REMARK 200  
 REMARK 200 NUMBER OF UNIQUE REFLECTIONS : 72007  
 REMARK 200 RESOLUTION RANGE HIGH (A) : 2.250  
 REMARK 200 RESOLUTION RANGE LOW (A) : 99.000  
 REMARK 200 REJECTION CRITERIA (SIGMA(I)) : 1.000  
 REMARK 200  
 REMARK 200 OVERALL.  
 REMARK 200 COMPLETENESS FOR RANGE (%) : 92.8  
 REMARK 200 DATA REDUNDANCY : 4.120  
 REMARK 200 R MERGE (I) : 0.05000  
 REMARK 200 R SYM (I) : NULL  
 REMARK 200 <I/SIGMA(I)> FOR THE DATA SET : 18.6000  
 REMARK 200  
 REMARK 200 IN THE HIGHEST RESOLUTION SHELL.  
 REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A) : 2.25  
 REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A) : 2.33  
 REMARK 200 COMPLETENESS FOR SHELL (%) : 79.8  
 REMARK 200 DATA REDUNDANCY IN SHELL : 3.00  
 REMARK 200 R MERGE FOR SHELL (I) : 0.12200  
 REMARK 200 R SYM FOR SHELL (I) : NULL  
 REMARK 200 <I/SIGMA(I)> FOR SHELL : NULL  
 REMARK 200  
 REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH  
 REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: NULL  
 REMARK 200 SOFTWARE USED: AMORE  
 REMARK 200 STARTING MODEL: NULL  
 REMARK 200  
 REMARK 200 REMARK: NULL  
 REMARK 280  
 REMARK 280 CRYSTAL  
 REMARK 280 SOLVENT CONTENT, VS (%) : NULL  
 REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS\*\*3/DA) : NULL  
 REMARK 280  
 REMARK 280 CRYSTALLIZATION CONDITIONS: PEG4000, SODIUM ACETATE,  
 REMARK 280 TRIS.HCL, MAGNESIUM ACETATE, GLYOXYLATE, 3-NITROPROPIONATE  
 REMARK 290  
 REMARK 290 CRYSTALLOGRAPHIC SYMMETRY  
 REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 21 21 21  
 REMARK 290  
 REMARK 290 SYMOP SYMMETRY  
 REMARK 290 NNNMMM OPERATOR  
 REMARK 290 1555 X,Y,Z  
 REMARK 290 2555 1/2-X, -Y, 1/2+Z  
 REMARK 290 3555 -X, 1/2+Y, 1/2-Z  
 REMARK 290 4555 1/2+X, 1/2-Y, -Z  
 REMARK 290  
 REMARK 290 WHERE NNN -> OPERATOR NUMBER  
 REMARK 290 MMM -> TRANSLATION VECTOR  
 REMARK 290  
 REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS  
 REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM  
 REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY  
 REMARK 290 RELATED MOLECULES.  
 REMARK 290 SMTRY1 1 1.000000 0.000000 0.000000 0.000000  
 REMARK 290 SMTRY2 1 0.000000 1.000000 0.000000 0.000000  
 REMARK 290 SMTRY3 1 0.000000 0.000000 1.000000 0.000000  
 REMARK 290 SMTRY1 2 -1.000000 0.000000 0.000000 37.14550  
 REMARK 290 SMTRY2 2 0.000000 -1.000000 0.000000 0.000000  
 REMARK 290 SMTRY3 2 0.000000 0.000000 1.000000 83.48100  
 REMARK 290 SMTRY1 3 -1.000000 0.000000 0.000000 0.000000  
 REMARK 290 SMTRY2 3 0.000000 1.000000 0.000000 64.50900  
 REMARK 290 SMTRY3 3 0.000000 0.000000 -1.000000 83.48100  
 REMARK 290 SMTRY1 4 1.000000 0.000000 0.000000 37.14550  
 REMARK 290 SMTRY2 4 0.000000 -1.000000 0.000000 64.50900  
 REMARK 290 SMTRY3 4 0.000000 0.000000 -1.000000 0.000000  
 REMARK 290  
 REMARK 290 REMARK: NULL  
 REMARK 300  
 REMARK 300 BIOMOLECULE: 1  
 REMARK 300 THIS ENTRY CONTAINS THE CRYSTALLOGRAPHIC ASYMMETRIC UNIT  
 REMARK 300 WHICH CONSISTS OF 4 CHAIN(S). SEE REMARK 350 FOR  
 REMARK 300 INFORMATION ON GENERATING THE BIOLOGICAL MOLECULE(S).  
 REMARK 350  
 REMARK 350 GENERATING THE BIOMOLECULE  
 REMARK 350 COORDINATES FOR A COMPLETE MULTIMER REPRESENTING THE KNOWN  
 REMARK 350 BIOLOGICALLY SIGNIFICANT OLIGOMERIZATION STATE OF THE  
 REMARK 350 MOLECULE CAN BE GENERATED BY APPLYING BIOMT TRANSFORMATIONS  
 REMARK 350 GIVEN BELOW. BOTH NON-CRYSTALLOGRAPHIC AND  
 REMARK 350 CRYSTALLOGRAPHIC OPERATIONS ARE GIVEN.  
 REMARK 350



REMARK 350 BIOMOLECULE: 1  
 REMARK 350 APPLY THE FOLLOWING TO CHAINS: A, B, C, D  
 REMARK 350 BIOMT1 1 1.000000 0.000000 0.000000 0.000000  
 REMARK 350 BIOMT2 1 0.000000 1.000000 0.000000 0.000000  
 REMARK 350 BIOMT3 1 0.000000 0.000000 1.000000 0.000000  
 REMARK 465  
 REMARK 465 MISSING RESIDUES  
 REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE  
 REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN  
 REMARK 465 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE.)  
 REMARK 465  
 REMARK 465 M RES C SSSEQI  
 REMARK 465 MET A 0  
 REMARK 465 HIS A 428  
 REMARK 465 MET B 0  
 REMARK 465 HIS B 428  
 REMARK 465 MET C 0  
 REMARK 465 HIS C 428  
 REMARK 465 MET D 0  
 REMARK 465 HIS D 428  
 REMARK 500  
 REMARK 500 GEOMETRY AND STEREOCHEMISTRY  
 REMARK 500 SUBTOPIC: COVALENT BOND LENGTHS  
 REMARK 500  
 REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES  
 REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE  
 REMARK 500 THAN 6\*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN  
 REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).  
 REMARK 500  
 REMARK 500 STANDARD TABLE:  
 REMARK 500 FORMAT: (10X,I3,1X,2(A3,1X,A1,I4,A1,1X,A4,3X),F6.3)  
 REMARK 500  
 REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991  
 REMARK 500  

M	RES	CSSEQI	ATM1	RES	CSSEQI	ATM2	DEVIATION
ALA	A	1	CA	ALA	A	1	N 0.034
MET	A	284	CE	MET	A	284	SD -0.044
MET	A	370	CE	MET	A	370	SD 0.046
VAL	A	397	CG2	VAL	A	397	CB -0.035
ALA	B	1	CA	ALA	B	1	N 0.034
PRO	B	118	CD	PRO	B	118	CG 0.034
MET	B	309	CE	MET	B	309	SD -0.040
VAL	B	397	CG2	VAL	B	397	CB -0.034
ALA	C	1	CA	ALA	C	1	N 0.033
ALA	D	1	CA	ALA	D	1	N 0.035
MET	D	76	CE	MET	D	76	SD -0.033

 REMARK 500  
 REMARK 500 GEOMETRY AND STEREOCHEMISTRY  
 REMARK 500 SUBTOPIC: COVALENT BOND ANGLES  
 REMARK 500  
 REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES  
 REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE  
 REMARK 500 THAN 6\*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN  
 REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).  
 REMARK 500  
 REMARK 500 STANDARD TABLE:  
 REMARK 500 FORMAT: (10X,I3,1X,A3,1X,A1,I4,A1,3(1X,A4,2X),12X,F5.1)  
 REMARK 500  
 REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991  
 REMARK 500  

M	RES	CSSEQI	ATM1	ATM2	ATM3	ANGL. DEV.
THR	A	19	N	- CA	- C	7.7 DEGREES
GLN	A	39	N	- CA	- C	8.5 DEGREES
PRO	A	107	N	- CA	- C	-10.1 DEGREES
ALA	A	114	N	- CA	- C	8.6 DEGREES
VAL	A	151	N	- CA	- C	-7.1 DEGREES
SER	A	191	N	- CA	- C	-7.5 DEGREES
CYS	A	314	N	- CA	- C	-8.4 DEGREES
SER	A	315	N	- CA	- C	10.1 DEGREES
ASN	A	319	N	- CA	- C	-12.2 DEGREES
TRP	A	320	N	- CA	- C	9.0 DEGREES
GLY	A	398	N	- CA	- C	8.2 DEGREES
ALA	A	417	N	- CA	- C	8.6 DEGREES
LEU	B	101	N	- CA	- C	8.0 DEGREES
PRO	B	107	N	- CA	- C	-9.6 DEGREES
ALA	B	114	N	- CA	- C	7.2 DEGREES
CYS	B	314	N	- CA	- C	-8.3 DEGREES
SER	B	315	N	- CA	- C	10.2 DEGREES
ASN	B	319	N	- CA	- C	-11.6 DEGREES
TRP	B	320	N	- CA	- C	8.4 DEGREES



```

REMARK 500 MET B 370 N - CA - C ANGL. DEV. = 7.3 DEGREES
REMARK 500 LYS B 392 N - CA - C ANGL. DEV. = -8.0 DEGREES
REMARK 500 GLY B 398 N - CA - C ANGL. DEV. = 7.8 DEGREES
REMARK 500 ALA B 417 N - CA - C ANGL. DEV. = 10.3 DEGREES
REMARK 500 GLY B 425 N - CA - C ANGL. DEV. = 7.3 DEGREES
REMARK 500 LEU C 90 CA - CB - CG ANGL. DEV. = 7.9 DEGREES
REMARK 500 GLY C 97 N - CA - C ANGL. DEV. = 7.3 DEGREES
REMARK 500 LEU C 101 N - CA - C ANGL. DEV. = 7.3 DEGREES
REMARK 500 PRO C 107 N - CA - C ANGL. DEV. = -8.5 DEGREES
REMARK 500 VAL C 151 N - CA - C ANGL. DEV. = -7.4 DEGREES
REMARK 500 LEU C 185 N - CA - C ANGL. DEV. = -7.4 DEGREES
REMARK 500 CYS C 314 N - CA - C ANGL. DEV. = -7.8 DEGREES
REMARK 500 SER C 315 N - CA - C ANGL. DEV. = 10.4 DEGREES
REMARK 500 ASN C 319 N - CA - C ANGL. DEV. = -9.5 DEGREES
REMARK 500 TRP C 320 N - CA - C ANGL. DEV. = 8.7 DEGREES
REMARK 500 ILE C 346 N - CA - C ANGL. DEV. = -7.5 DEGREES
REMARK 500 LYS C 392 N - CA - C ANGL. DEV. = -7.4 DEGREES
REMARK 500 GLY C 398 N - CA - C ANGL. DEV. = 8.5 DEGREES
REMARK 500 ALA C 417 N - CA - C ANGL. DEV. = 9.0 DEGREES
REMARK 500 LEU D 101 N - CA - C ANGL. DEV. = 7.3 DEGREES
REMARK 500 PRO D 107 N - CA - C ANGL. DEV. = -9.5 DEGREES
REMARK 500 ALA D 114 N - CA - C ANGL. DEV. = 7.2 DEGREES
REMARK 500 CYS D 314 N - CA - C ANGL. DEV. = -7.5 DEGREES
REMARK 500 SER D 315 N - CA - C ANGL. DEV. = 9.3 DEGREES
REMARK 500 ASN D 319 N - CA - C ANGL. DEV. = -9.0 DEGREES
REMARK 500 TRP D 320 N - CA - C ANGL. DEV. = 8.7 DEGREES
REMARK 500 THR D 347 N - CA - C ANGL. DEV. = 7.9 DEGREES
REMARK 500 GLY D 398 N - CA - C ANGL. DEV. = 9.2 DEGREES
REMARK 500 ALA D 417 N - CA - C ANGL. DEV. = 9.8 DEGREES
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: TORSION ANGLES
REMARK 500
REMARK 500 TORSION ANGLES OUTSIDE THE EXPECTED RAMACHANDRAN REGIONS:
REMARK 500 (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER;
REMARK 500 SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X,I3,1X,A3,1X,A1,I4,A1,4X,F7.2,3X,F7.2)
REMARK 500
REMARK 500 M RES CSSEQI PSI PHI
REMARK 500 GLN C 369 -119.67 37.30
REMARK 900
REMARK 900 RELATED ENTRIES
REMARK 900 RELATED ID: 1F8M RELATED DB: PDB
REMARK 900 STRUCTURE OF 3-BROMOPYRUVATE MODIFIED ISOCITRATE LYASE
REMARK 999
REMARK 999 SEQUENCE
REMARK 999 AN ALANINE WAS INSERTED AT THE N-TERMINUS
REMARK 999 AFTER THE FIRST METHIONINE RESIDUE, MASVV...
REMARK 999 MET 0 WAS NOT OBSERVED DUE TO POOR DENSITY OR
REMARK 999 PERHAPS IT WAS CLEAVED OFF THE RECOMBINANT
REMARK 999 PROTEIN DURING EXPRESSION. THEREFORE, THE
REMARK 999 FIRST RESIDUE IN THIS ENTRY IS ALA 1.
DBREF 1F8I A 0 428 GB 7436639 G70828 1 428
DBREF 1F8I B 0 428 GB 7436639 G70828 1 428
DBREF 1F8I C 0 428 GB 7436639 G70828 1 428
DBREF 1F8I D 0 428 GB 7436639 G70828 1 428
SEQADV 1F8I ALA A 1 GB 7436639 INSERTION
SEQADV 1F8I SER A 191 GB 7436639 CYS 191 ENGINEERED
SEQADV 1F8I ALA B 1 GB 7436639 INSERTION
SEQADV 1F8I SER B 191 GB 7436639 CYS 191 ENGINEERED
SEQADV 1F8I ALA C 1 GB 7436639 INSERTION
SEQADV 1F8I SER C 191 GB 7436639 CYS 191 ENGINEERED
SEQADV 1F8I ALA D 1 GB 7436639 INSERTION
SEQADV 1F8I SER D 191 GB 7436639 CYS 191 ENGINEERED
SEQRES 1 A 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN
SEQRES 2 A 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP
SEQRES 3 A 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU
SEQRES 4 A 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG
SEQRES 5 A 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU
SEQRES 6 A 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA
SEQRES 7 A 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU
SEQRES 8 A 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY
SEQRES 9 A 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER
SEQRES 10 A 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN
SEQRES 11 A 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER
SEQRES 12 A 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU
SEQRES 13 A 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN
SEQRES 14 A 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP

```



SEQRES 15 A 429 GLU ASP GLN LEU ALA SER GLU LYS LYS SER GLY HIS LEU  
 SEQRES 16 A 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 A 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 A 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 A 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 A 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 A 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 A 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 A 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 A 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 A 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU  
 SEQRES 26 A 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 A 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 A 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR  
 SEQRES 29 A 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 A 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 A 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 A 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 A 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS  
 SEQRES 1 B 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN  
 SEQRES 2 B 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP  
 SEQRES 3 B 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU  
 SEQRES 4 B 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG  
 SEQRES 5 B 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU  
 SEQRES 6 B 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA  
 SEQRES 7 B 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU  
 SEQRES 8 B 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY  
 SEQRES 9 B 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER  
 SEQRES 10 B 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN  
 SEQRES 11 B 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER  
 SEQRES 12 B 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU  
 SEQRES 13 B 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN  
 SEQRES 14 B 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP  
 SEQRES 15 B 429 GLU ASP GLN LEU ALA SER GLU LYS LYS SER GLY HIS LEU  
 SEQRES 16 B 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 B 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 B 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 B 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 B 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 B 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 B 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 B 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 B 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 B 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU  
 SEQRES 26 B 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 B 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 B 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR  
 SEQRES 29 B 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 B 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 B 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 B 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 B 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS  
 SEQRES 1 C 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN  
 SEQRES 2 C 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP  
 SEQRES 3 C 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU  
 SEQRES 4 C 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG  
 SEQRES 5 C 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU  
 SEQRES 6 C 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA  
 SEQRES 7 C 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU  
 SEQRES 8 C 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY  
 SEQRES 9 C 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER  
 SEQRES 10 C 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN  
 SEQRES 11 C 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER  
 SEQRES 12 C 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU  
 SEQRES 13 C 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN  
 SEQRES 14 C 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP  
 SEQRES 15 C 429 GLU ASP GLN LEU ALA SER GLU LYS LYS SER GLY HIS LEU  
 SEQRES 16 C 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 C 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 C 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 C 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 C 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 C 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 C 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 C 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 C 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 C 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU  
 SEQRES 26 C 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 C 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 C 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR



SEQRES 29 C 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 C 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 C 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 C 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 C 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS  
 SEQRES 1 D 429 MET ALA SER VAL VAL GLY THR PRO LYS SER ALA GLU GLN  
 SEQRES 2 D 429 ILE GLN GLN GLU TRP ASP THR ASN PRO ARG TRP LYS ASP  
 SEQRES 3 D 429 VAL THR ARG THR TYR SER ALA GLU ASP VAL VAL ALA LEU  
 SEQRES 4 D 429 GLN GLY SER VAL VAL GLU GLU HIS THR LEU ALA ARG ARG  
 SEQRES 5 D 429 GLY ALA GLU VAL LEU TRP GLU GLN LEU HIS ASP LEU GLU  
 SEQRES 6 D 429 TRP VAL ASN ALA LEU GLY ALA LEU THR GLY ASN MET ALA  
 SEQRES 7 D 429 VAL GLN GLN VAL ARG ALA GLY LEU LYS ALA ILE TYR LEU  
 SEQRES 8 D 429 SER GLY TRP GLN VAL ALA GLY ASP ALA ASN LEU SER GLY  
 SEQRES 9 D 429 HIS THR TYR PRO ASP GLN SER LEU TYR PRO ALA ASN SER  
 SEQRES 10 D 429 VAL PRO GLN VAL VAL ARG ARG ILE ASN ASN ALA LEU GLN  
 SEQRES 11 D 429 ARG ALA ASP GLN ILE ALA LYS ILE GLU GLY ASP THR SER  
 SEQRES 12 D 429 VAL GLU ASN TRP LEU ALA PRO ILE VAL ALA ASP GLY GLU  
 SEQRES 13 D 429 ALA GLY PHE GLY GLY ALA LEU ASN VAL TYR GLU LEU GLN  
 SEQRES 14 D 429 LYS ALA LEU ILE ALA ALA GLY VAL ALA GLY SER HIS TRP  
 SEQRES 15 D 429 GLU ASP GLN LEU ALA SER GLU LYS LYS SER GLY HIS LEU  
 SEQRES 16 D 429 GLY GLY LYS VAL LEU ILE PRO THR GLN GLN HIS ILE ARG  
 SEQRES 17 D 429 THR LEU THR SER ALA ARG LEU ALA ALA ASP VAL ALA ASP  
 SEQRES 18 D 429 VAL PRO THR VAL VAL ILE ALA ARG THR ASP ALA GLU ALA  
 SEQRES 19 D 429 ALA THR LEU ILE THR SER ASP VAL ASP GLU ARG ASP GLN  
 SEQRES 20 D 429 PRO PHE ILE THR GLY GLU ARG THR ARG GLU GLY PHE TYR  
 SEQRES 21 D 429 ARG THR LYS ASN GLY ILE GLU PRO CYS ILE ALA ARG ALA  
 SEQRES 22 D 429 LYS ALA TYR ALA PRO PHE ALA ASP LEU ILE TRP MET GLU  
 SEQRES 23 D 429 THR GLY THR PRO ASP LEU GLU ALA ALA ARG GLN PHE SER  
 SEQRES 24 D 429 GLU ALA VAL LYS ALA GLU TYR PRO ASP GLN MET LEU ALA  
 SEQRES 25 D 429 TYR ASN CYS SER PRO SER PHE ASN TRP LYS LYS HIS LEU  
 SEQRES 26 D 429 ASP ASP ALA THR ILE ALA LYS PHE GLN LYS GLU LEU ALA  
 SEQRES 27 D 429 ALA MET GLY PHE LYS PHE GLN PHE ILE THR LEU ALA GLY  
 SEQRES 28 D 429 PHE HIS ALA LEU ASN TYR SER MET PHE ASP LEU ALA TYR  
 SEQRES 29 D 429 GLY TYR ALA GLN ASN GLN MET SER ALA TYR VAL GLU LEU  
 SEQRES 30 D 429 GLN GLU ARG GLU PHE ALA ALA GLU GLU ARG GLY TYR THR  
 SEQRES 31 D 429 ALA THR LYS HIS GLN ARG GLU VAL GLY ALA GLY TYR PHE  
 SEQRES 32 D 429 ASP ARG ILE ALA THR THR VAL ASP PRO ASN SER SER THR  
 SEQRES 33 D 429 THR ALA LEU THR GLY SER THR GLU GLU GLY GLN PHE HIS

HET MG A 451 1  
 HET MG B 452 1  
 HET MG C 453 1  
 HET MG D 454 1  
 HET GLV 461 5  
 HET GLV 462 5  
 HET GLV 463 5  
 HET GLV 464 5  
 HET SIN 471 8  
 HET SIN 472 8  
 HET SIN 473 8  
 HET SIN 474 8

HETNAM MG MAGNESIUM ION  
 HETNAM GLV GLYOXYLIC ACID  
 HETNAM SIN SUCCINIC ACID  
 HETSYN GLV GLYOXALATE

FORMUL 5 MG 4 (MG1 2+)  
 FORMUL 9 GLV 4 (C2 H2 O3)  
 FORMUL 13 SIN 4 (C4 H6 O4)  
 FORMUL 17 HOH \*1052 (H2 O1)

HELIX	1	1	SER	A	9	ASN	A	20	1	12
HELIX	2	2	PRO	A	21	LYS	A	24	5	4
HELIX	3	3	SER	A	31	LEU	A	38	1	8
HELIX	4	4	HIS	A	46	LEU	A	63	1	18
HELIX	5	5	THR	A	73	ALA	A	83	1	11
HELIX	6	6	SER	A	91	ALA	A	99	1	9
HELIX	7	7	ASN	A	115	GLY	A	139	1	25
HELIX	8	8	GLY	A	160	ALA	A	174	1	15
HELIX	9	9	LEU	A	185	LYS	A	189	5	5
HELIX	10	10	PRO	A	201	ALA	A	219	1	19
HELIX	11	11	ASP	A	245	PRO	A	247	5	3
HELIX	12	12	GLY	A	264	ALA	A	276	1	13
HELIX	13	13	PRO	A	277	ALA	A	279	5	3
HELIX	14	14	ASP	A	290	TYR	A	305	1	16
HELIX	15	15	ASN	A	319	LEU	A	324	1	6
HELIX	16	16	ASP	A	325	MET	A	339	1	15
HELIX	17	17	LEU	A	348	GLN	A	369	1	22
HELIX	18	18	GLN	A	369	GLU	A	384	1	16
HELIX	19	19	GLU	A	385	GLY	A	387	5	3
HELIX	20	20	LYS	A	392	VAL	A	397	1	6
HELIX	21	21	GLY	A	398	ASP	A	410	1	13
HELIX	22	22	SER	A	421	PHE	A	427	1	7



HELIX	23	23	SER	B	9	ASN	B	20	1	12
HELIX	24	24	PRO	B	21	LYS	B	24	5	4
HELIX	25	25	SER	B	31	LEU	B	38	1	8
HELIX	26	26	HIS	B	46	LEU	B	63	1	18
HELIX	27	27	THR	B	73	ALA	B	83	1	11
HELIX	28	28	SER	B	91	ALA	B	99	1	9
HELIX	29	29	ASN	B	115	GLY	B	139	1	25
HELIX	30	30	GLY	B	160	ALA	B	174	1	15
HELIX	31	31	LEU	B	185	LYS	B	189	5	5
HELIX	32	32	PRO	B	201	ALA	B	219	1	19
HELIX	33	33	ASP	B	245	PRO	B	247	5	3
HELIX	34	34	GLY	B	264	ALA	B	276	1	13
HELIX	35	35	PRO	B	277	ALA	B	279	5	3
HELIX	36	36	ASP	B	290	ALA	B	303	1	14
HELIX	37	37	ASN	B	319	LEU	B	324	1	6
HELIX	38	38	ASP	B	325	MET	B	339	1	15
HELIX	39	39	LEU	B	348	GLN	B	369	1	22
HELIX	40	40	GLN	B	369	GLU	B	384	1	16
HELIX	41	41	GLU	B	385	GLY	B	387	5	3
HELIX	42	42	LYS	B	392	VAL	B	397	1	6
HELIX	43	43	GLY	B	398	ASP	B	410	1	13
HELIX	44	44	SER	B	421	PHE	B	427	1	7
HELIX	45	45	SER	C	9	ASN	C	20	1	12
HELIX	46	46	PRO	C	21	LYS	C	24	5	4
HELIX	47	47	SER	C	31	GLN	C	39	1	9
HELIX	48	48	HIS	C	46	LEU	C	63	1	18
HELIX	49	49	THR	C	73	ALA	C	83	1	11
HELIX	50	50	SER	C	91	ALA	C	99	1	9
HELIX	51	51	ASN	C	115	GLU	C	138	1	24
HELIX	52	52	GLY	C	160	ALA	C	174	1	15
HELIX	53	53	LEU	C	185	LYS	C	189	5	5
HELIX	54	54	PRO	C	201	ALA	C	219	1	19
HELIX	55	55	ASP	C	245	PRO	C	247	5	3
HELIX	56	56	GLY	C	264	ALA	C	276	1	13
HELIX	57	57	PRO	C	277	ALA	C	279	5	3
HELIX	58	58	ASP	C	290	TYR	C	305	1	16
HELIX	59	59	ASN	C	319	LEU	C	324	1	6
HELIX	60	60	ASP	C	325	MET	C	339	1	15
HELIX	61	61	LEU	C	348	GLN	C	369	1	22
HELIX	62	62	GLN	C	369	GLU	C	384	1	16
HELIX	63	63	GLU	C	385	GLY	C	387	5	3
HELIX	64	64	LYS	C	392	VAL	C	397	1	6
HELIX	65	65	GLY	C	398	ASP	C	410	1	13
HELIX	66	66	SER	C	421	PHE	C	427	1	7
HELIX	67	67	SER	D	9	ASN	D	20	1	12
HELIX	68	68	PRO	D	21	LYS	D	24	5	4
HELIX	69	69	SER	D	31	GLN	D	39	1	9
HELIX	70	70	HIS	D	46	LEU	D	63	1	18
HELIX	71	71	THR	D	73	ALA	D	83	1	11
HELIX	72	72	SER	D	91	ALA	D	99	1	9
HELIX	73	73	ASN	D	115	GLY	D	139	1	25
HELIX	74	74	GLY	D	160	GLY	D	175	1	16
HELIX	75	75	LEU	D	185	LYS	D	189	5	5
HELIX	76	76	PRO	D	201	ALA	D	219	1	19
HELIX	77	77	ASP	D	245	PRO	D	247	5	3
HELIX	78	78	GLY	D	264	ALA	D	276	1	13
HELIX	79	79	PRO	D	277	ALA	D	279	5	3
HELIX	80	80	ASP	D	290	ALA	D	303	1	14
HELIX	81	81	ASN	D	319	LEU	D	324	1	6
HELIX	82	82	ASP	D	325	MET	D	339	1	15
HELIX	83	83	LEU	D	348	GLN	D	369	1	22
HELIX	84	84	GLN	D	369	GLU	D	384	1	16
HELIX	85	85	GLU	D	385	GLY	D	387	5	3
HELIX	86	86	LYS	D	392	VAL	D	397	1	6
HELIX	87	87	GLY	D	398	ASP	D	410	1	13
HELIX	88	88	SER	D	421	PHE	D	427	1	7
SHEET	1	A 8	VAL	A	66	LEU	A	69	0	
SHEET	2	A 8	PHE	A	341	ILE	A	346	1	O LYS A 342 N VAL A 66
SHEET	3	A 8	MET	A	309	ASN	A	313	1	O LEU A 310 N PHE A 343
SHEET	4	A 8	LEU	A	281	MET	A	284	1	O ILE A 282 N ALA A 311
SHEET	5	A 8	VAL	A	224	THR	A	229	1	O VAL A 225 N LEU A 281
SHEET	6	A 8	GLY	A	178	GLU	A	182	1	O SER A 179 N ILE A 226
SHEET	7	A 8	ILE	A	150	ASP	A	153	1	O ILE A 150 N GLY A 178
SHEET	8	A 8	ILE	A	88	LEU	A	90	1	O ILE A 88 N VAL A 151
SHEET	1	B 4	VAL	A	198	LEU	A	199	0	
SHEET	2	B 4	LEU	A	236	ILE	A	237	1	O LEU A 236 N LEU A 199
SHEET	3	B 4	TYR	A	259	THR	A	261	-1	N TYR A 259 O ILE A 237
SHEET	4	B 4	ILE	A	249	ARG	A	253	-1	N THR A 250 O ARG A 260
SHEET	1	C 8	VAL	B	66	LEU	B	69	0	
SHEET	2	C 8	PHE	B	341	ILE	B	346	1	O LYS B 342 N VAL B 66



7-9/7

SHEET	3	C	8	MET	B	309	ASN	B	313	1	O	LEU	B	310	N	PHE	B	343
SHEET	4	C	8	LEU	B	281	MET	B	284	1	O	ILE	B	282	N	ALA	B	311
SHEET	5	C	8	VAL	B	224	THR	B	229	1	O	VAL	B	225	N	LEU	B	281
SHEET	6	C	8	GLY	B	178	GLU	B	182	1	O	SER	B	179	N	ILE	B	226
SHEET	7	C	8	ILE	B	150	ASP	B	153	1	O	ILE	B	150	N	GLY	B	178
SHEET	8	C	8	ILE	B	88	LEU	B	90	1	O	ILE	B	88	N	VAL	B	151
SHEET	1	D	4	VAL	B	198	LEU	B	199	0								
SHEET	2	D	4	LEU	B	236	ILE	B	237	1	O	LEU	B	236	N	LEU	B	199
SHEET	3	D	4	TYR	B	259	THR	B	261	-1	N	TYR	B	259	O	ILE	B	237
SHEET	4	D	4	ILE	B	249	ARG	B	253	-1	N	THR	B	250	O	ARG	B	260
SHEET	1	E	8	VAL	C	66	LEU	C	69	0								
SHEET	2	E	8	PHE	C	341	ILE	C	346	1	O	LYS	C	342	N	VAL	C	66
SHEET	3	E	8	MET	C	309	ASN	C	313	1	O	LEU	C	310	N	LYS	C	342
SHEET	4	E	8	LEU	C	281	MET	C	284	1	O	ILE	C	282	N	ALA	C	311
SHEET	5	E	8	VAL	C	224	THR	C	229	1	O	VAL	C	225	N	LEU	C	281
SHEET	6	E	8	GLY	C	178	GLU	C	182	1	O	SER	C	179	N	ILE	C	226
SHEET	7	E	8	ILE	C	150	ASP	C	153	1	O	ILE	C	150	N	GLY	C	178
SHEET	8	E	8	ILE	C	88	LEU	C	90	1	O	ILE	C	88	N	VAL	C	151
SHEET	1	F	4	VAL	C	198	LEU	C	199	0								
SHEET	2	F	4	LEU	C	236	ILE	C	237	1	O	LEU	C	236	N	LEU	C	199
SHEET	3	F	4	TYR	C	259	THR	C	261	-1	N	TYR	C	259	O	ILE	C	237
SHEET	4	F	4	ILE	C	249	ARG	C	253	-1	N	THR	C	250	O	ARG	C	260
SHEET	1	G	8	VAL	D	66	LEU	D	69	0								
SHEET	2	G	8	PHE	D	341	ILE	D	346	1	O	LYS	D	342	N	VAL	D	66
SHEET	3	G	8	MET	D	309	ASN	D	313	1	O	LEU	D	310	N	PHE	D	343
SHEET	4	G	8	LEU	D	281	MET	D	284	1	O	ILE	D	282	N	ALA	D	311
SHEET	5	G	8	VAL	D	224	THR	D	229	1	O	VAL	D	225	N	LEU	D	281
SHEET	6	G	8	GLY	D	178	GLU	D	182	1	O	SER	D	179	N	ILE	D	226
SHEET	7	G	8	ILE	D	150	ASP	D	153	1	O	ILE	D	150	N	GLY	D	178
SHEET	8	G	8	ILE	D	88	LEU	D	90	1	O	ILE	D	88	N	VAL	D	151
SHEET	1	H	4	VAL	D	198	LEU	D	199	0								
SHEET	2	H	4	LEU	D	236	ILE	D	237	1	O	LEU	D	236	N	LEU	D	199
SHEET	3	H	4	TYR	D	259	THR	D	261	-1	N	TYR	D	259	O	ILE	D	237
SHEET	4	H	4	ILE	D	249	ARG	D	253	-1	N	THR	D	250	O	ARG	D	260
CRYST1	74.	291	129.	018	166.	962	90.00	90.00	90.00	P	21	21	21	16				
ORIGX1		1.000000		0.000000		0.000000		0.000000										
ORIGX2		0.000000		1.000000		0.000000		0.000000										
ORIGX3		0.000000		0.000000		1.000000		0.000000										
SCALE1		0.013461		0.000000		0.000000		0.000000										
SCALE2		0.000000		0.007751		0.000000		0.000000										
SCALE3		0.000000		0.000000		0.005989		0.000000										
ATOM	1	N		ALA	A	1	35.286	84.967	56.655	1.00	49.70							N
ATOM	2	CA		ALA	A	1	36.771	85.033	56.788	1.00	49.35							C
ATOM	3	C		ALA	A	1	37.262	84.130	57.915	1.00	48.56							C
ATOM	4	O		ALA	A	1	37.363	84.559	59.066	1.00	48.47							O
ATOM	5	CB		ALA	A	1	37.204	86.472	57.049	1.00	50.12							C
ATOM	6	N		SER	A	2	37.571	82.881	57.579	1.00	47.64							N
ATOM	7	CA		SER	A	2	38.054	81.917	58.563	1.00	46.14							C
ATOM	8	C		SER	A	2	38.786	80.787	57.842	1.00	44.68							C
ATOM	9	O		SER	A	2	38.552	80.551	56.657	1.00	44.64							O
ATOM	10	CB		SER	A	2	36.873	81.352	59.368	1.00	47.37							C
ATOM	11	OG		SER	A	2	37.302	80.500	60.421	1.00	47.70							O
ATOM	12	N		VAL	A	3	39.676	80.100	58.555	1.00	42.42							N
ATOM	13	CA		VAL	A	3	40.429	78.991	57.971	1.00	41.23							C
ATOM	14	C		VAL	A	3	39.823	77.655	58.387	1.00	39.53							C
ATOM	15	O		VAL	A	3	40.300	76.593	57.988	1.00	38.52							O
ATOM	16	CB		VAL	A	3	41.910	79.003	58.417	1.00	41.58							C
ATOM	17	CG1		VAL	A	3	42.555	80.322	58.034	1.00	41.65							C
ATOM	18	CG2		VAL	A	3	42.008	78.769	59.918	1.00	40.45							C
ATOM	19	N		VAL	A	4	38.776	77.720	59.204	1.00	38.02							N
ATOM	20	CA		VAL	A	4	38.100	76.518	59.673	1.00	34.70							C
ATOM	21	C		VAL	A	4	37.411	75.830	58.500	1.00	34.09							C
ATOM	22	O		VAL	A	4	36.604	76.440	57.798	1.00	33.87							O
ATOM	23	CB		VAL	A	4	37.043	76.858	60.742	1.00	34.26							C
ATOM	24	CG1		VAL	A	4	36.421	75.575	61.289	1.00	32.04							C
ATOM	25	CG2		VAL	A	4	37.680	77.676	61.856	1.00	32.83							C
ATOM	26	N		GLY	A	5	37.744	74.562	58.287	1.00	33.92							N
ATOM	27	CA		GLY	A	5	37.145	73.813	57.200	1.00	33.28							C
ATOM	28	C		GLY	A	5	37.802	74.056	55.854	1.00	33.60							C
ATOM	29	O		GLY	A	5	37.278	73.636	54.821	1.00	33.52							O
ATOM	30	N		THR	A	6	38.942	74.739	55.849	1.00	32.02							N
ATOM	31	CA		THR	A	6	39.636	75.003	54.596	1.00	31.96							C
ATOM	32	C		THR	A	6	39.973	73.673	53.932	1.00	31.14							C
ATOM	33	O		THR	A	6	40.607	72.811	54.540	1.00	30.09							O
ATOM	34	CB		THR	A	6	40.939	75.777	54.827	1.00	33.04							C
ATOM	35	OG1		THR	A	6	40.651	76.990	55.532	1.00	35.87							O
ATOM	36	CG2		THR	A	6	41.596	76.112	53.494	1.00	32.74							C
ATOM	37	N		PRO	A	7	39.549	73.487	52.672	1.00	30.52							N
ATOM	38	CA		PRO	A	7	39.836	72.231	51.978	1.00	31.04							C
ATOM	39	C		PRO	A	7	41.316	71.985	51.684	1.00	31.19							C



7-10/7

ATOM	40	O	PRO	A	7	42.094	72.926	51.514	1.00	31.25	O
ATOM	41	CB	PRO	A	7	38.981	72.333	50.711	1.00	30.88	C
ATOM	42	CG	PRO	A	7	38.871	73.797	50.480	1.00	29.94	C
ATOM	43	CD	PRO	A	7	38.706	74.373	51.849	1.00	30.12	C
ATOM	44	N	LYS	A	8	41.696	70.710	51.654	1.00	30.82	N
ATOM	45	CA	LYS	A	8	43.070	70.310	51.356	1.00	30.44	C
ATOM	46	C	LYS	A	8	43.389	70.677	49.915	1.00	30.21	C
ATOM	47	O	LYS	A	8	42.486	70.930	49.119	1.00	31.56	O
ATOM	48	CB	LYS	A	8	43.229	68.798	51.510	1.00	30.29	C
ATOM	49	CG	LYS	A	8	42.920	68.271	52.896	1.00	32.90	C
ATOM	50	CD	LYS	A	8	43.130	66.767	52.951	1.00	32.76	C
ATOM	51	CE	LYS	A	8	42.892	66.225	54.348	1.00	33.03	C
ATOM	52	NZ	LYS	A	8	43.003	64.740	54.385	1.00	29.72	N
ATOM	53	N	SER	A	9	44.670	70.702	49.572	1.00	30.60	N
ATOM	54	CA	SER	A	9	45.055	71.017	48.205	1.00	31.46	C
ATOM	55	C	SER	A	9	45.051	69.702	47.441	1.00	31.04	C
ATOM	56	O	SER	A	9	45.081	68.628	48.046	1.00	31.55	O
ATOM	57	CB	SER	A	9	46.457	71.633	48.159	1.00	32.00	C
ATOM	58	OG	SER	A	9	47.449	70.663	48.449	1.00	34.75	O
ATOM	59	N	ALA	A	10	44.997	69.784	46.118	1.00	32.03	N
ATOM	60	CA	ALA	A	10	45.011	68.589	45.292	1.00	31.45	C
ATOM	61	C	ALA	A	10	46.293	67.809	45.604	1.00	32.33	C
ATOM	62	O	ALA	A	10	46.277	66.580	45.714	1.00	31.50	O
ATOM	63	CB	ALA	A	10	44.962	68.977	43.814	1.00	29.96	C
ATOM	64	N	GLU	A	11	47.400	68.533	45.764	1.00	33.43	N
ATOM	65	CA	GLU	A	11	48.689	67.910	46.061	1.00	34.46	C
ATOM	66	C	GLU	A	11	48.634	67.067	47.332	1.00	32.67	C
ATOM	67	O	GLU	A	11	49.115	65.933	47.357	1.00	31.71	O
ATOM	68	CB	GLU	A	11	49.782	68.976	46.208	1.00	38.87	C
ATOM	69	CG	GLU	A	11	50.109	69.762	44.933	1.00	42.88	C
ATOM	70	CD	GLU	A	11	48.999	70.709	44.505	1.00	45.99	C
ATOM	71	OE1	GLU	A	11	48.491	71.458	45.369	1.00	48.56	O
ATOM	72	OE2	GLU	A	11	48.645	70.715	43.303	1.00	48.01	O
ATOM	73	N	GLN	A	12	48.051	67.624	48.390	1.00	32.75	N
ATOM	74	CA	GLN	A	12	47.930	66.909	49.664	1.00	32.92	C
ATOM	75	C	GLN	A	12	47.106	65.635	49.485	1.00	32.67	C
ATOM	76	O	GLN	A	12	47.446	64.582	50.022	1.00	31.80	O
ATOM	77	CB	GLN	A	12	47.246	67.787	50.712	1.00	33.78	C
ATOM	78	CG	GLN	A	12	47.921	69.115	50.965	1.00	38.15	C
ATOM	79	CD	GLN	A	12	47.208	69.933	52.030	1.00	39.12	C
ATOM	80	OE1	GLN	A	12	47.080	69.503	53.176	1.00	40.27	O
ATOM	81	NE2	GLN	A	12	46.743	71.118	51.655	1.00	39.98	N
ATOM	82	N	ILE	A	13	46.009	65.745	48.743	1.00	31.94	N
ATOM	83	CA	ILE	A	13	45.148	64.598	48.486	1.00	31.53	C
ATOM	84	C	ILE	A	13	45.944	63.541	47.728	1.00	31.47	C
ATOM	85	O	ILE	A	13	45.961	62.370	48.111	1.00	29.85	O
ATOM	86	CB	ILE	A	13	43.902	65.009	47.648	1.00	31.31	C
ATOM	87	CG1	ILE	A	13	42.997	65.924	48.479	1.00	30.41	C
ATOM	88	CG2	ILE	A	13	43.143	63.772	47.193	1.00	31.05	C
ATOM	89	CD1	ILE	A	13	41.814	66.489	47.716	1.00	30.08	C
ATOM	90	N	GLN	A	14	46.612	63.971	46.659	1.00	32.76	N
ATOM	91	CA	GLN	A	14	47.414	63.078	45.828	1.00	34.96	C
ATOM	92	C	GLN	A	14	48.465	62.334	46.651	1.00	35.94	C
ATOM	93	O	GLN	A	14	48.641	61.124	46.496	1.00	36.31	O
ATOM	94	CB	GLN	A	14	48.104	63.869	44.710	1.00	34.58	C
ATOM	95	CG	GLN	A	14	48.765	63.000	43.652	1.00	35.74	C
ATOM	96	CD	GLN	A	14	47.772	62.104	42.940	1.00	36.51	C
ATOM	97	OE1	GLN	A	14	46.815	62.583	42.332	1.00	38.75	O
ATOM	98	NE2	GLN	A	14	47.992	60.797	43.017	1.00	36.15	N
ATOM	99	N	GLN	A	15	49.162	63.053	47.526	1.00	37.95	N
ATOM	100	CA	GLN	A	15	50.182	62.419	48.354	1.00	39.42	C
ATOM	101	C	GLN	A	15	49.580	61.336	49.228	1.00	39.11	C
ATOM	102	O	GLN	A	15	50.184	60.279	49.428	1.00	38.39	O
ATOM	103	CB	GLN	A	15	50.886	63.434	49.252	1.00	42.06	C
ATOM	104	CG	GLN	A	15	51.732	62.745	50.319	1.00	48.09	C
ATOM	105	CD	GLN	A	15	52.557	63.698	51.151	1.00	51.49	C
ATOM	106	OE1	GLN	A	15	53.534	64.272	50.671	1.00	55.49	O
ATOM	107	NE2	GLN	A	15	52.169	63.873	52.409	1.00	52.99	N
ATOM	108	N	GLU	A	16	48.396	61.612	49.765	1.00	38.81	N
ATOM	109	CA	GLU	A	16	47.709	60.651	50.615	1.00	38.80	C
ATOM	110	C	GLU	A	16	47.394	59.396	49.821	1.00	37.15	C
ATOM	111	O	GLU	A	16	47.564	58.281	50.315	1.00	38.06	O
ATOM	112	CB	GLU	A	16	46.410	61.243	51.150	1.00	41.27	C
ATOM	113	CG	GLU	A	16	46.585	62.317	52.201	1.00	44.96	C
ATOM	114	CD	GLU	A	16	45.250	62.883	52.656	1.00	47.99	C
ATOM	115	OE1	GLU	A	16	44.358	62.085	53.026	1.00	49.54	O
ATOM	116	OE2	GLU	A	16	45.090	64.122	52.644	1.00	48.95	O
ATOM	117	N	TRP	A	17	46.932	59.584	48.588	1.00	35.00	N
ATOM	118	CA	TRP	A	17	46.597	58.460	47.723	1.00	35.04	C
ATOM	119	C	TRP	A	17	47.840	57.654	47.368	1.00	34.68	C



ATOM	120	O	TRP	A	17	47.809	56.422	47.367	1.00	35.46	O
ATOM	121	CB	TRP	A	17	45.919	58.951	46.434	1.00	32.78	C
ATOM	122	CG	TRP	A	17	44.555	59.552	46.641	1.00	30.59	C
ATOM	123	CD1	TRP	A	17	43.840	59.593	47.806	1.00	29.35	C
ATOM	124	CD2	TRP	A	17	43.736	60.185	45.645	1.00	29.93	C
ATOM	125	NE1	TRP	A	17	42.628	60.210	47.598	1.00	29.70	N
ATOM	126	CE2	TRP	A	17	42.538	60.583	46.282	1.00	29.54	C
ATOM	127	CE3	TRP	A	17	43.899	60.453	44.277	1.00	27.54	C
ATOM	128	CZ2	TRP	A	17	41.507	61.238	45.598	1.00	28.39	C
ATOM	129	CZ3	TRP	A	17	42.878	61.102	43.597	1.00	29.13	C
ATOM	130	CH2	TRP	A	17	41.693	61.489	44.260	1.00	29.25	C
ATOM	131	N	ASP	A	18	48.935	58.352	47.084	1.00	35.76	N
ATOM	132	CA	ASP	A	18	50.183	57.692	46.711	1.00	36.98	C
ATOM	133	C	ASP	A	18	50.963	57.066	47.859	1.00	36.53	C
ATOM	134	O	ASP	A	18	51.634	56.057	47.663	1.00	37.55	O
ATOM	135	CB	ASP	A	18	51.119	58.669	45.992	1.00	37.19	C
ATOM	136	CG	ASP	A	18	50.512	59.249	44.735	1.00	37.37	C
ATOM	137	OD1	ASP	A	18	49.817	58.511	44.007	1.00	37.20	O
ATOM	138	OD2	ASP	A	18	50.747	60.446	44.469	1.00	38.30	O
ATOM	139	N	THR	A	19	50.873	57.652	49.051	1.00	38.02	N
ATOM	140	CA	THR	A	19	51.638	57.153	50.195	1.00	37.02	C
ATOM	141	C	THR	A	19	50.901	56.408	51.310	1.00	37.17	C
ATOM	142	O	THR	A	19	51.534	55.686	52.078	1.00	39.18	O
ATOM	143	CB	THR	A	19	52.445	58.301	50.843	1.00	36.92	C
ATOM	144	OG1	THR	A	19	51.548	59.248	51.433	1.00	37.40	O
ATOM	145	CG2	THR	A	19	53.285	59.016	49.790	1.00	35.71	C
ATOM	146	N	ASN	A	20	49.584	56.567	51.419	1.00	35.69	N
ATOM	147	CA	ASN	A	20	48.852	55.869	52.474	1.00	34.03	C
ATOM	148	C	ASN	A	20	48.511	54.438	52.059	1.00	33.15	C
ATOM	149	O	ASN	A	20	47.913	54.211	51.010	1.00	32.64	O
ATOM	150	CB	ASN	A	20	47.558	56.604	52.822	1.00	34.36	C
ATOM	151	CG	ASN	A	20	46.971	56.149	54.149	1.00	33.69	C
ATOM	152	OD1	ASN	A	20	46.939	54.956	54.457	1.00	30.81	O
ATOM	153	ND2	ASN	A	20	46.497	57.104	54.941	1.00	35.38	N
ATOM	154	N	PRO	A	21	48.887	53.452	52.886	1.00	32.61	N
ATOM	155	CA	PRO	A	21	48.616	52.041	52.593	1.00	32.64	C
ATOM	156	C	PRO	A	21	47.124	51.765	52.394	1.00	32.36	C
ATOM	157	O	PRO	A	21	46.743	50.793	51.739	1.00	31.97	O
ATOM	158	CB	PRO	A	21	49.180	51.322	53.817	1.00	32.47	C
ATOM	159	CG	PRO	A	21	50.292	52.210	54.244	1.00	31.57	C
ATOM	160	CD	PRO	A	21	49.668	53.580	54.128	1.00	31.67	C
ATOM	161	N	ARG	A	22	46.284	52.623	52.966	1.00	30.53	N
ATOM	162	CA	ARG	A	22	44.840	52.469	52.834	1.00	30.65	C
ATOM	163	C	ARG	A	22	44.417	52.414	51.367	1.00	30.84	C
ATOM	164	O	ARG	A	22	43.447	51.745	51.020	1.00	29.98	O
ATOM	165	CB	ARG	A	22	44.114	53.637	53.507	1.00	29.51	C
ATOM	166	CG	ARG	A	22	42.612	53.668	53.241	1.00	26.99	C
ATOM	167	CD	ARG	A	22	41.898	52.496	53.899	1.00	26.32	C
ATOM	168	NE	ARG	A	22	40.447	52.586	53.740	1.00	25.55	N
ATOM	169	CZ	ARG	A	22	39.779	52.225	52.648	1.00	25.98	C
ATOM	170	NH1	ARG	A	22	40.424	51.732	51.596	1.00	25.41	N
ATOM	171	NH2	ARG	A	22	38.460	52.371	52.603	1.00	25.29	N
ATOM	172	N	TRP	A	23	45.158	53.118	50.515	1.00	29.84	N
ATOM	173	CA	TRP	A	23	44.847	53.183	49.096	1.00	30.17	C
ATOM	174	C	TRP	A	23	45.745	52.324	48.215	1.00	30.92	C
ATOM	175	O	TRP	A	23	45.718	52.451	46.994	1.00	29.48	O
ATOM	176	CB	TRP	A	23	44.920	54.637	48.643	1.00	29.47	C
ATOM	177	CG	TRP	A	23	44.180	55.548	49.558	1.00	27.90	C
ATOM	178	CD1	TRP	A	23	44.686	56.613	50.237	1.00	27.98	C
ATOM	179	CD2	TRP	A	23	42.789	55.478	49.896	1.00	27.26	C
ATOM	180	NE1	TRP	A	23	43.697	57.217	50.980	1.00	27.42	N
ATOM	181	CE2	TRP	A	23	42.522	56.539	50.787	1.00	27.50	C
ATOM	182	CE3	TRP	A	23	41.741	54.621	49.530	1.00	27.68	C
ATOM	183	CZ2	TRP	A	23	41.246	56.769	51.320	1.00	28.66	C
ATOM	184	CZ3	TRP	A	23	40.470	54.848	50.062	1.00	26.29	C
ATOM	185	CH2	TRP	A	23	40.237	55.914	50.946	1.00	28.08	C
ATOM	186	N	LYS	A	24	46.523	51.447	48.839	1.00	33.48	N
ATOM	187	CA	LYS	A	24	47.444	50.568	48.123	1.00	35.30	C
ATOM	188	C	LYS	A	24	46.837	49.896	46.892	1.00	35.55	C
ATOM	189	O	LYS	A	24	47.445	49.886	45.821	1.00	36.69	O
ATOM	190	CB	LYS	A	24	47.979	49.487	49.068	1.00	36.90	C
ATOM	191	CG	LYS	A	24	48.906	48.485	48.401	1.00	40.44	C
ATOM	192	CD	LYS	A	24	49.211	47.301	49.309	1.00	44.18	C
ATOM	193	CE	LYS	A	24	47.945	46.518	49.646	1.00	46.51	C
ATOM	194	NZ	LYS	A	24	48.209	45.247	50.388	1.00	47.61	N
ATOM	195	N	ASP	A	25	45.642	49.335	47.035	1.00	34.97	N
ATOM	196	CA	ASP	A	25	45.013	48.645	45.912	1.00	34.41	C
ATOM	197	C	ASP	A	25	43.776	49.348	45.383	1.00	32.50	C
ATOM	198	O	ASP	A	25	42.931	48.728	44.743	1.00	32.83	O
ATOM	199	CB	ASP	A	25	44.647	47.218	46.327	1.00	35.98	C



ATOM	200	CG	ASP	A	25	45.806	46.494	46.990	1.00	37.51	C
ATOM	201	OD1	ASP	A	25	46.938	46.606	46.475	1.00	38.49	O
ATOM	202	OD2	ASP	A	25	45.587	45.812	48.018	1.00	36.92	O
ATOM	203	N	VAL	A	26	43.675	50.648	45.627	1.00	31.49	N
ATOM	204	CA	VAL	A	26	42.507	51.389	45.179	1.00	29.89	C
ATOM	205	C	VAL	A	26	42.688	52.150	43.878	1.00	29.78	C
ATOM	206	O	VAL	A	26	43.571	52.996	43.754	1.00	30.01	O
ATOM	207	CB	VAL	A	26	42.036	52.380	46.267	1.00	28.45	C
ATOM	208	CG1	VAL	A	26	40.796	53.133	45.791	1.00	23.14	C
ATOM	209	CG2	VAL	A	26	41.746	51.626	47.559	1.00	25.78	C
ATOM	210	N	THR	A	27	41.829	51.854	42.910	1.00	30.30	N
ATOM	211	CA	THR	A	27	41.873	52.533	41.623	1.00	29.65	C
ATOM	212	C	THR	A	27	40.831	53.650	41.602	1.00	29.25	C
ATOM	213	O	THR	A	27	39.687	53.450	42.010	1.00	29.39	O
ATOM	214	CB	THR	A	27	41.578	51.554	40.465	1.00	30.67	C
ATOM	215	OG1	THR	A	27	42.609	50.561	40.405	1.00	32.32	O
ATOM	216	CG2	THR	A	27	41.502	52.296	39.134	1.00	28.74	C
ATOM	217	N	ARG	A	28	41.244	54.823	41.139	1.00	27.96	N
ATOM	218	CA	ARG	A	28	40.365	55.983	41.031	1.00	28.58	C
ATOM	219	C	ARG	A	28	40.461	56.494	39.592	1.00	29.12	C
ATOM	220	O	ARG	A	28	41.531	56.929	39.164	1.00	30.31	O
ATOM	221	CB	ARG	A	28	40.810	57.097	41.987	1.00	27.79	C
ATOM	222	CG	ARG	A	28	40.611	56.818	43.473	1.00	28.31	C
ATOM	223	CD	ARG	A	28	40.899	58.091	44.274	1.00	27.89	C
ATOM	224	NE	ARG	A	28	40.433	58.041	45.660	1.00	27.38	N
ATOM	225	CZ	ARG	A	28	41.031	57.379	46.650	1.00	28.45	C
ATOM	226	NH1	ARG	A	28	42.141	56.687	46.431	1.00	26.62	N
ATOM	227	NH2	ARG	A	28	40.519	57.423	47.876	1.00	29.64	N
ATOM	228	N	THR	A	29	39.357	56.450	38.851	1.00	27.71	N
ATOM	229	CA	THR	A	29	39.362	56.909	37.463	1.00	28.15	C
ATOM	230	C	THR	A	29	39.204	58.420	37.312	1.00	28.53	C
ATOM	231	O	THR	A	29	39.018	58.927	36.206	1.00	29.59	O
ATOM	232	CB	THR	A	29	38.267	56.202	36.618	1.00	28.18	C
ATOM	233	OG1	THR	A	29	36.978	56.419	37.206	1.00	25.37	O
ATOM	234	CG2	THR	A	29	38.559	54.696	36.519	1.00	25.45	C
ATOM	235	N	TYR	A	30	39.261	59.137	38.427	1.00	28.17	N
ATOM	236	CA	TYR	A	30	39.169	60.592	38.404	1.00	27.43	C
ATOM	237	C	TYR	A	30	40.414	61.108	39.112	1.00	27.23	C
ATOM	238	O	TYR	A	30	41.194	60.320	39.646	1.00	26.69	O
ATOM	239	CB	TYR	A	30	37.890	61.080	39.096	1.00	26.36	C
ATOM	240	CG	TYR	A	30	37.618	60.434	40.431	1.00	27.20	C
ATOM	241	CD1	TYR	A	30	38.315	60.820	41.575	1.00	26.48	C
ATOM	242	CD2	TYR	A	30	36.659	59.428	40.552	1.00	26.31	C
ATOM	243	CE1	TYR	A	30	38.061	60.223	42.813	1.00	25.53	C
ATOM	244	CE2	TYR	A	30	36.400	58.823	41.783	1.00	28.29	C
ATOM	245	CZ	TYR	A	30	37.101	59.226	42.908	1.00	26.59	C
ATOM	246	OH	TYR	A	30	36.826	58.638	44.122	1.00	25.14	O
ATOM	247	N	SER	A	31	40.607	62.419	39.127	1.00	26.87	N
ATOM	248	CA	SER	A	31	41.807	62.973	39.734	1.00	25.52	C
ATOM	249	C	SER	A	31	41.570	63.773	41.001	1.00	26.35	C
ATOM	250	O	SER	A	31	40.446	64.187	41.297	1.00	25.06	O
ATOM	251	CB	SER	A	31	42.509	63.868	38.727	1.00	23.26	C
ATOM	252	OG	SER	A	31	41.729	65.027	38.500	1.00	23.78	O
ATOM	253	N	ALA	A	32	42.656	63.996	41.737	1.00	26.56	N
ATOM	254	CA	ALA	A	32	42.615	64.776	42.969	1.00	27.28	C
ATOM	255	C	ALA	A	32	42.027	66.139	42.635	1.00	29.28	C
ATOM	256	O	ALA	A	32	41.243	66.694	43.413	1.00	30.20	O
ATOM	257	CB	ALA	A	32	44.022	64.937	43.537	1.00	25.08	C
ATOM	258	N	GLU	A	33	42.412	66.674	41.475	1.00	29.10	N
ATOM	259	CA	GLU	A	33	41.916	67.968	41.018	1.00	30.98	C
ATOM	260	C	GLU	A	33	40.394	67.949	40.904	1.00	29.79	C
ATOM	261	O	GLU	A	33	39.734	68.941	41.210	1.00	30.33	O
ATOM	262	CB	GLU	A	33	42.512	68.333	39.650	1.00	34.94	C
ATOM	263	CG	GLU	A	33	44.013	68.607	39.640	1.00	38.96	C
ATOM	264	CD	GLU	A	33	44.840	67.389	40.021	1.00	42.56	C
ATOM	265	OE1	GLU	A	33	44.712	66.333	39.355	1.00	42.59	O
ATOM	266	OE2	GLU	A	33	45.623	67.489	40.990	1.00	44.28	O
ATOM	267	N	ASP	A	34	39.845	66.822	40.451	1.00	28.77	N
ATOM	268	CA	ASP	A	34	38.399	66.679	40.301	1.00	28.58	C
ATOM	269	C	ASP	A	34	37.709	66.705	41.658	1.00	27.83	C
ATOM	270	O	ASP	A	34	36.633	67.285	41.807	1.00	28.65	O
ATOM	271	CB	ASP	A	34	38.050	65.373	39.578	1.00	28.79	C
ATOM	272	CG	ASP	A	34	38.534	65.356	38.141	1.00	28.91	C
ATOM	273	OD1	ASP	A	34	38.521	66.433	37.502	1.00	26.81	O
ATOM	274	OD2	ASP	A	34	38.913	64.268	37.654	1.00	28.80	O
ATOM	275	N	VAL	A	35	38.332	66.075	42.648	1.00	25.96	N
ATOM	276	CA	VAL	A	35	37.768	66.050	43.987	1.00	24.88	C
ATOM	277	C	VAL	A	35	37.704	67.467	44.550	1.00	25.56	C
ATOM	278	O	VAL	A	35	36.669	67.902	45.057	1.00	26.49	O
ATOM	279	CB	VAL	A	35	38.614	65.173	44.919	1.00	23.89	C



ATOM	280	CG1	VAL	A	35	38.061	65.225	46.327	1.00	21.73	C
ATOM	281	CG2	VAL	A	35	38.629	63.742	44.399	1.00	24.48	C
ATOM	282	N	VAL	A	36	38.814	68.189	44.445	1.00	24.78	N
ATOM	283	CA	VAL	A	36	38.886	69.552	44.951	1.00	25.22	C
ATOM	284	C	VAL	A	36	37.829	70.459	44.318	1.00	24.96	C
ATOM	285	O	VAL	A	36	37.163	71.229	45.013	1.00	24.09	O
ATOM	286	CB	VAL	A	36	40.288	70.160	44.705	1.00	25.50	C
ATOM	287	CG1	VAL	A	36	40.304	71.633	45.107	1.00	25.54	C
ATOM	288	CG2	VAL	A	36	41.323	69.383	45.495	1.00	23.73	C
ATOM	289	N	ALA	A	37	37.675	70.364	43.000	1.00	24.11	N
ATOM	290	CA	ALA	A	37	36.701	71.186	42.287	1.00	23.19	C
ATOM	291	C	ALA	A	37	35.280	71.034	42.830	1.00	23.51	C
ATOM	292	O	ALA	A	37	34.448	71.930	42.677	1.00	23.41	O
ATOM	293	CB	ALA	A	37	36.719	70.837	40.805	1.00	25.57	C
ATOM	294	N	LEU	A	38	35.005	69.906	43.474	1.00	21.66	N
ATOM	295	CA	LEU	A	38	33.671	69.647	43.999	1.00	22.88	C
ATOM	296	C	LEU	A	38	33.470	70.020	45.470	1.00	24.35	C
ATOM	297	O	LEU	A	38	32.349	69.972	45.977	1.00	23.42	O
ATOM	298	CB	LEU	A	38	33.331	68.161	43.786	1.00	20.79	C
ATOM	299	CG	LEU	A	38	33.235	67.697	42.320	1.00	22.24	C
ATOM	300	CD1	LEU	A	38	33.101	66.177	42.239	1.00	21.22	C
ATOM	301	CD2	LEU	A	38	32.038	68.374	41.652	1.00	21.39	C
ATOM	302	N	GLN	A	39	34.547	70.424	46.141	1.00	25.81	N
ATOM	303	CA	GLN	A	39	34.489	70.744	47.569	1.00	25.29	C
ATOM	304	C	GLN	A	39	34.108	72.149	48.011	1.00	24.50	C
ATOM	305	O	GLN	A	39	34.068	72.424	49.210	1.00	26.00	O
ATOM	306	CB	GLN	A	39	35.826	70.376	48.222	1.00	26.30	C
ATOM	307	CG	GLN	A	39	36.199	68.914	48.058	1.00	29.42	C
ATOM	308	CD	GLN	A	39	37.489	68.561	48.761	1.00	29.86	C
ATOM	309	OE1	GLN	A	39	38.515	69.214	48.554	1.00	32.79	O
ATOM	310	NE2	GLN	A	39	37.452	67.520	49.594	1.00	27.02	N
ATOM	311	N	GLY	A	40	33.821	73.043	47.076	1.00	25.12	N
ATOM	312	CA	GLY	A	40	33.475	74.393	47.484	1.00	24.46	C
ATOM	313	C	GLY	A	40	34.657	74.982	48.237	1.00	26.30	C
ATOM	314	O	GLY	A	40	35.795	74.548	48.041	1.00	26.00	O
ATOM	315	N	SER	A	41	34.409	75.954	49.108	1.00	25.79	N
ATOM	316	CA	SER	A	41	35.506	76.565	49.847	1.00	26.26	C
ATOM	317	C	SER	A	41	35.527	76.166	51.315	1.00	26.20	C
ATOM	318	O	SER	A	41	36.347	76.656	52.090	1.00	27.58	O
ATOM	319	CB	SER	A	41	35.458	78.090	49.708	1.00	26.20	C
ATOM	320	OG	SER	A	41	34.209	78.611	50.106	1.00	30.96	O
ATOM	321	N	VAL	A	42	34.630	75.262	51.687	1.00	25.62	N
ATOM	322	CA	VAL	A	42	34.552	74.779	53.059	1.00	25.23	C
ATOM	323	C	VAL	A	42	34.196	73.300	53.081	1.00	25.36	C
ATOM	324	O	VAL	A	42	33.232	72.878	52.437	1.00	24.39	O
ATOM	325	CB	VAL	A	42	33.493	75.548	53.869	1.00	24.47	C
ATOM	326	CG1	VAL	A	42	33.341	74.924	55.249	1.00	24.64	C
ATOM	327	CG2	VAL	A	42	33.896	77.009	53.993	1.00	24.93	C
ATOM	328	N	VAL	A	43	34.983	72.522	53.820	1.00	24.25	N
ATOM	329	CA	VAL	A	43	34.759	71.091	53.946	1.00	25.08	C
ATOM	330	C	VAL	A	43	34.419	70.740	55.390	1.00	24.92	C
ATOM	331	O	VAL	A	43	35.193	71.006	56.307	1.00	25.17	O
ATOM	332	CB	VAL	A	43	36.009	70.280	53.508	1.00	26.89	C
ATOM	333	CG1	VAL	A	43	35.804	68.795	53.801	1.00	25.75	C
ATOM	334	CG2	VAL	A	43	36.260	70.483	52.022	1.00	26.09	C
ATOM	335	N	GLU	A	44	33.246	70.151	55.585	1.00	24.82	N
ATOM	336	CA	GLU	A	44	32.803	69.753	56.909	1.00	23.98	C
ATOM	337	C	GLU	A	44	33.551	68.510	57.360	1.00	24.51	C
ATOM	338	O	GLU	A	44	33.737	67.567	56.588	1.00	25.39	O
ATOM	339	CB	GLU	A	44	31.304	69.446	56.903	1.00	22.67	C
ATOM	340	CG	GLU	A	44	30.409	70.655	56.889	1.00	22.71	C
ATOM	341	CD	GLU	A	44	28.943	70.273	56.914	1.00	23.21	C
ATOM	342	OE1	GLU	A	44	28.439	69.791	55.879	1.00	25.92	O
ATOM	343	OE2	GLU	A	44	28.296	70.442	57.968	1.00	23.05	O
ATOM	344	N	GLU	A	45	33.980	68.515	58.614	1.00	24.11	N
ATOM	345	CA	GLU	A	45	34.674	67.373	59.174	1.00	24.89	C
ATOM	346	C	GLU	A	45	33.599	66.386	59.627	1.00	25.25	C
ATOM	347	O	GLU	A	45	32.596	66.783	60.224	1.00	24.87	O
ATOM	348	CB	GLU	A	45	35.521	67.815	60.366	1.00	26.87	C
ATOM	349	CG	GLU	A	45	36.070	66.683	61.221	1.00	29.37	C
ATOM	350	CD	GLU	A	45	37.030	65.779	60.475	1.00	31.30	C
ATOM	351	OE1	GLU	A	45	37.444	66.128	59.348	1.00	35.06	O
ATOM	352	OE2	GLU	A	45	37.381	64.716	61.025	1.00	31.93	O
ATOM	353	N	HIS	A	46	33.806	65.110	59.318	1.00	23.67	N
ATOM	354	CA	HIS	A	46	32.876	64.052	59.695	1.00	22.80	C
ATOM	355	C	HIS	A	46	33.617	63.103	60.636	1.00	21.98	C
ATOM	356	O	HIS	A	46	34.085	62.031	60.243	1.00	21.59	O
ATOM	357	CB	HIS	A	46	32.384	63.322	58.442	1.00	21.60	C
ATOM	358	CG	HIS	A	46	31.662	64.214	57.479	1.00	22.29	C
ATOM	359	ND1	HIS	A	46	30.485	64.857	57.800	1.00	23.10	N



ATOM	360	CD2	HIS	A	46	31.958	64.585	56.210	1.00	22.32	C
ATOM	361	CE1	HIS	A	46	30.088	65.586	56.770	1.00	23.01	C
ATOM	362	NE2	HIS	A	46	30.964	65.438	55.792	1.00	21.41	N
ATOM	363	N	THR	A	47	33.718	63.532	61.891	1.00	22.20	N
ATOM	364	CA	THR	A	47	34.418	62.797	62.935	1.00	19.78	C
ATOM	365	C	THR	A	47	34.083	61.311	63.043	1.00	20.62	C
ATOM	366	O	THR	A	47	34.982	60.470	62.954	1.00	20.53	O
ATOM	367	CB	THR	A	47	34.181	63.467	64.302	1.00	20.45	C
ATOM	368	OG1	THR	A	47	34.527	64.859	64.211	1.00	18.07	O
ATOM	369	CG2	THR	A	47	35.025	62.798	65.384	1.00	19.02	C
ATOM	370	N	LEU	A	48	32.804	60.978	63.219	1.00	20.28	N
ATOM	371	CA	LEU	A	48	32.415	59.575	63.361	1.00	19.82	C
ATOM	372	C	LEU	A	48	32.606	58.752	62.090	1.00	18.94	C
ATOM	373	O	LEU	A	48	32.867	57.550	62.156	1.00	19.75	O
ATOM	374	CB	LEU	A	48	30.961	59.460	63.841	1.00	19.52	C
ATOM	375	CG	LEU	A	48	30.658	59.996	65.242	1.00	19.73	C
ATOM	376	CD1	LEU	A	48	29.226	59.633	65.639	1.00	17.61	C
ATOM	377	CD2	LEU	A	48	31.645	59.405	66.236	1.00	19.69	C
ATOM	378	N	ALA	A	49	32.472	59.387	60.933	1.00	17.19	N
ATOM	379	CA	ALA	A	49	32.658	58.670	59.679	1.00	18.77	C
ATOM	380	C	ALA	A	49	34.143	58.351	59.478	1.00	18.92	C
ATOM	381	O	ALA	A	49	34.495	57.282	58.977	1.00	19.48	O
ATOM	382	CB	ALA	A	49	32.138	59.499	58.517	1.00	15.41	C
ATOM	383	N	ARG	A	50	35.008	59.280	59.876	1.00	20.97	N
ATOM	384	CA	ARG	A	50	36.451	59.095	59.734	1.00	22.44	C
ATOM	385	C	ARG	A	50	36.963	58.061	60.718	1.00	23.82	C
ATOM	386	O	ARG	A	50	37.646	57.109	60.342	1.00	25.41	O
ATOM	387	CB	ARG	A	50	37.195	60.412	59.975	1.00	23.12	C
ATOM	388	CG	ARG	A	50	38.720	60.292	59.834	1.00	22.01	C
ATOM	389	CD	ARG	A	50	39.434	61.593	60.177	1.00	18.03	C
ATOM	390	NE	ARG	A	50	38.855	62.743	59.487	1.00	19.79	N
ATOM	391	CZ	ARG	A	50	38.913	62.943	58.174	1.00	21.23	C
ATOM	392	NH1	ARG	A	50	39.530	62.071	57.387	1.00	22.22	N
ATOM	393	NH2	ARG	A	50	38.348	64.019	57.646	1.00	21.50	N
ATOM	394	N	ARG	A	51	36.624	58.254	61.987	1.00	24.68	N
ATOM	395	CA	ARG	A	51	37.060	57.352	63.041	1.00	23.41	C
ATOM	396	C	ARG	A	51	36.581	55.926	62.768	1.00	23.48	C
ATOM	397	O	ARG	A	51	37.351	54.972	62.882	1.00	24.27	O
ATOM	398	CB	ARG	A	51	36.528	57.847	64.389	1.00	22.40	C
ATOM	399	CG	ARG	A	51	37.101	57.138	65.605	1.00	23.44	C
ATOM	400	CD	ARG	A	51	36.525	57.733	66.877	1.00	23.66	C
ATOM	401	NE	ARG	A	51	37.167	57.218	68.083	1.00	24.95	N
ATOM	402	CZ	ARG	A	51	37.011	55.987	68.559	1.00	26.61	C
ATOM	403	NH1	ARG	A	51	36.225	55.117	67.937	1.00	25.89	N
ATOM	404	NH2	ARG	A	51	37.642	55.626	69.669	1.00	27.30	N
ATOM	405	N	GLY	A	52	35.311	55.791	62.398	1.00	23.28	N
ATOM	406	CA	GLY	A	52	34.747	54.478	62.121	1.00	21.70	C
ATOM	407	C	GLY	A	52	35.414	53.757	60.963	1.00	22.12	C
ATOM	408	O	GLY	A	52	35.641	52.546	61.020	1.00	21.13	O
ATOM	409	N	ALA	A	53	35.724	54.495	59.903	1.00	22.79	N
ATOM	410	CA	ALA	A	53	36.377	53.900	58.741	1.00	22.96	C
ATOM	411	C	ALA	A	53	37.785	53.463	59.133	1.00	23.97	C
ATOM	412	O	ALA	A	53	38.234	52.373	58.766	1.00	23.29	O
ATOM	413	CB	ALA	A	53	36.441	54.904	57.590	1.00	21.58	C
ATOM	414	N	GLU	A	54	38.478	54.313	59.884	1.00	23.30	N
ATOM	415	CA	GLU	A	54	39.833	53.993	60.321	1.00	24.31	C
ATOM	416	C	GLU	A	54	39.850	52.756	61.213	1.00	23.56	C
ATOM	417	O	GLU	A	54	40.646	51.843	61.004	1.00	24.60	O
ATOM	418	CB	GLU	A	54	40.446	55.190	61.052	1.00	24.00	C
ATOM	419	CG	GLU	A	54	41.144	56.168	60.113	1.00	26.06	C
ATOM	420	CD	GLU	A	54	41.583	57.447	60.801	1.00	27.22	C
ATOM	421	OE1	GLU	A	54	41.817	57.421	62.029	1.00	29.75	O
ATOM	422	OE2	GLU	A	54	41.706	58.479	60.109	1.00	26.25	O
ATOM	423	N	VAL	A	55	38.959	52.725	62.197	1.00	23.64	N
ATOM	424	CA	VAL	A	55	38.867	51.595	63.112	1.00	21.26	C
ATOM	425	C	VAL	A	55	38.472	50.329	62.370	1.00	22.46	C
ATOM	426	O	VAL	A	55	39.024	49.253	62.627	1.00	23.45	O
ATOM	427	CB	VAL	A	55	37.817	51.840	64.214	1.00	18.63	C
ATOM	428	CG1	VAL	A	55	37.657	50.591	65.064	1.00	17.86	C
ATOM	429	CG2	VAL	A	55	38.228	53.019	65.075	1.00	19.08	C
ATOM	430	N	LEU	A	56	37.512	50.454	61.454	1.00	22.73	N
ATOM	431	CA	LEU	A	56	37.042	49.296	60.696	1.00	23.11	C
ATOM	432	C	LEU	A	56	38.164	48.691	59.865	1.00	23.05	C
ATOM	433	O	LEU	A	56	38.421	47.490	59.938	1.00	22.87	O
ATOM	434	CB	LEU	A	56	35.876	49.679	59.781	1.00	20.73	C
ATOM	435	CG	LEU	A	56	35.395	48.553	58.859	1.00	21.09	C
ATOM	436	CD1	LEU	A	56	34.877	47.396	59.693	1.00	18.49	C
ATOM	437	CD2	LEU	A	56	34.310	49.084	57.917	1.00	20.45	C
ATOM	438	N	TRP	A	57	38.822	49.533	59.076	1.00	25.01	N
ATOM	439	CA	TRP	A	57	39.922	49.098	58.231	1.00	29.18	C



ATOM	440	C	TRP	A	57	40.951	48.361	59.084	1.00	30.98	C
ATOM	441	O	TRP	A	57	41.390	47.270	58.731	1.00	31.00	O
ATOM	442	CB	TRP	A	57	40.565	50.307	57.541	1.00	30.90	C
ATOM	443	CG	TRP	A	57	41.579	49.936	56.500	1.00	33.52	C
ATOM	444	CD1	TRP	A	57	42.927	50.128	56.565	1.00	33.01	C
ATOM	445	CD2	TRP	A	57	41.324	49.294	55.243	1.00	34.86	C
ATOM	446	NE1	TRP	A	57	43.531	49.645	55.427	1.00	35.37	N
ATOM	447	CE2	TRP	A	57	42.572	49.129	54.597	1.00	34.30	C
ATOM	448	CE3	TRP	A	57	40.164	48.841	54.599	1.00	33.98	C
ATOM	449	CZ2	TRP	A	57	42.694	48.531	53.338	1.00	33.09	C
ATOM	450	CZ3	TRP	A	57	40.285	48.243	53.343	1.00	35.02	C
ATOM	451	CH2	TRP	A	57	41.544	48.095	52.728	1.00	33.61	C
ATOM	452	N	GLU	A	58	41.320	48.952	60.217	1.00	33.42	N
ATOM	453	CA	GLU	A	58	42.287	48.333	61.113	1.00	34.06	C
ATOM	454	C	GLU	A	58	41.838	46.956	61.585	1.00	33.47	C
ATOM	455	O	GLU	A	58	42.598	45.987	61.501	1.00	33.47	O
ATOM	456	CB	GLU	A	58	42.525	49.215	62.335	1.00	37.36	C
ATOM	457	CG	GLU	A	58	43.477	50.373	62.110	1.00	43.34	C
ATOM	458	CD	GLU	A	58	43.668	51.196	63.369	1.00	47.42	C
ATOM	459	OE1	GLU	A	58	43.984	50.596	64.424	1.00	48.38	O
ATOM	460	OE2	GLU	A	58	43.501	52.438	63.302	1.00	49.74	O
ATOM	461	N	GLN	A	59	40.611	46.869	62.089	1.00	30.51	N
ATOM	462	CA	GLN	A	59	40.104	45.599	62.587	1.00	29.29	C
ATOM	463	C	GLN	A	59	40.098	44.533	61.494	1.00	29.31	C
ATOM	464	O	GLN	A	59	40.345	43.360	61.765	1.00	28.24	O
ATOM	465	CB	GLN	A	59	38.691	45.765	63.161	1.00	29.90	C
ATOM	466	CG	GLN	A	59	38.564	46.761	64.309	1.00	28.71	C
ATOM	467	CD	GLN	A	59	37.160	46.776	64.902	1.00	31.38	C
ATOM	468	OE1	GLN	A	59	36.182	46.527	64.200	1.00	30.18	O
ATOM	469	NE2	GLN	A	59	37.055	47.081	66.193	1.00	30.07	N
ATOM	470	N	LEU	A	60	39.818	44.938	60.260	1.00	29.51	N
ATOM	471	CA	LEU	A	60	39.796	43.991	59.151	1.00	30.84	C
ATOM	472	C	LEU	A	60	41.171	43.363	58.917	1.00	32.82	C
ATOM	473	O	LEU	A	60	41.283	42.320	58.274	1.00	31.74	O
ATOM	474	CB	LEU	A	60	39.315	44.677	57.871	1.00	28.91	C
ATOM	475	CG	LEU	A	60	37.826	45.018	57.827	1.00	27.58	C
ATOM	476	CD1	LEU	A	60	37.486	45.756	56.545	1.00	25.75	C
ATOM	477	CD2	LEU	A	60	37.029	43.736	57.938	1.00	27.41	C
ATOM	478	N	HIS	A	61	42.212	44.001	59.440	1.00	34.31	N
ATOM	479	CA	HIS	A	61	43.569	43.489	59.289	1.00	38.18	C
ATOM	480	C	HIS	A	61	44.097	42.820	60.571	1.00	39.59	C
ATOM	481	O	HIS	A	61	44.725	41.762	60.509	1.00	39.33	O
ATOM	482	CB	HIS	A	61	44.511	44.624	58.864	1.00	40.31	C
ATOM	483	CG	HIS	A	61	44.234	45.159	57.490	1.00	42.80	C
ATOM	484	ND1	HIS	A	61	44.582	44.480	56.342	1.00	43.78	N
ATOM	485	CD2	HIS	A	61	43.623	46.297	57.081	1.00	43.50	C
ATOM	486	CE1	HIS	A	61	44.197	45.175	55.285	1.00	43.44	C
ATOM	487	NE2	HIS	A	61	43.612	46.281	55.706	1.00	44.01	N
ATOM	488	N	ASP	A	62	43.820	43.418	61.729	1.00	40.04	N
ATOM	489	CA	ASP	A	62	44.305	42.884	63.004	1.00	40.57	C
ATOM	490	C	ASP	A	62	43.541	41.699	63.580	1.00	39.72	C
ATOM	491	O	ASP	A	62	44.100	40.905	64.336	1.00	40.13	O
ATOM	492	CB	ASP	A	62	44.348	43.989	64.063	1.00	41.31	C
ATOM	493	CG	ASP	A	62	45.119	45.204	63.602	1.00	44.33	C
ATOM	494	OD1	ASP	A	62	46.138	45.030	62.900	1.00	46.74	O
ATOM	495	OD2	ASP	A	62	44.714	46.333	63.949	1.00	46.77	O
ATOM	496	N	LEU	A	63	42.264	41.580	63.243	1.00	39.11	N
ATOM	497	CA	LEU	A	63	41.463	40.482	63.771	1.00	37.99	C
ATOM	498	C	LEU	A	63	41.402	39.312	62.798	1.00	36.82	C
ATOM	499	O	LEU	A	63	41.601	39.481	61.598	1.00	36.79	O
ATOM	500	CB	LEU	A	63	40.050	40.979	64.092	1.00	36.76	C
ATOM	501	CG	LEU	A	63	39.991	42.213	65.002	1.00	37.07	C
ATOM	502	CD1	LEU	A	63	38.549	42.563	65.308	1.00	36.81	C
ATOM	503	CD2	LEU	A	63	40.747	41.943	66.295	1.00	36.33	C
ATOM	504	N	GLU	A	64	41.143	38.121	63.325	1.00	36.94	N
ATOM	505	CA	GLU	A	64	41.043	36.931	62.488	1.00	36.98	C
ATOM	506	C	GLU	A	64	39.919	37.192	61.482	1.00	35.70	C
ATOM	507	O	GLU	A	64	39.946	36.699	60.350	1.00	35.70	O
ATOM	508	CB	GLU	A	64	40.722	35.708	63.353	1.00	38.68	C
ATOM	509	CG	GLU	A	64	41.205	34.388	62.765	1.00	42.66	C
ATOM	510	CD	GLU	A	64	40.988	33.218	63.708	1.00	45.14	C
ATOM	511	OE1	GLU	A	64	41.314	33.356	64.907	1.00	46.95	O
ATOM	512	OE2	GLU	A	64	40.502	32.159	63.254	1.00	46.45	O
ATOM	513	N	TRP	A	65	38.934	37.973	61.920	1.00	33.14	N
ATOM	514	CA	TRP	A	65	37.794	38.371	61.099	1.00	31.20	C
ATOM	515	C	TRP	A	65	36.837	39.227	61.933	1.00	30.48	C
ATOM	516	O	TRP	A	65	36.819	39.144	63.163	1.00	29.50	O
ATOM	517	CB	TRP	A	65	37.079	37.141	60.517	1.00	29.64	C
ATOM	518	CG	TRP	A	65	36.059	36.471	61.396	1.00	29.96	C
ATOM	519	CD1	TRP	A	65	34.725	36.774	61.489	1.00	29.04	C



ATOM	520	CD2	TRP	A	65	36.271	35.332	62.237	1.00	29.18	C
ATOM	521	NE1	TRP	A	65	34.096	35.884	62.328	1.00	28.93	N
ATOM	522	CE2	TRP	A	65	35.020	34.990	62.801	1.00	28.49	C
ATOM	523	CE3	TRP	A	65	37.397	34.563	62.567	1.00	30.69	C
ATOM	524	CZ2	TRP	A	65	34.864	33.911	63.673	1.00	28.87	C
ATOM	525	CZ3	TRP	A	65	37.241	33.487	63.439	1.00	28.73	C
ATOM	526	CH2	TRP	A	65	35.982	33.173	63.980	1.00	30.02	C
ATOM	527	N	VAL	A	66	36.063	40.065	61.254	1.00	29.08	N
ATOM	528	CA	VAL	A	66	35.115	40.957	61.911	1.00	27.07	C
ATOM	529	C	VAL	A	66	33.692	40.493	61.630	1.00	27.30	C
ATOM	530	O	VAL	A	66	33.286	40.379	60.469	1.00	26.53	O
ATOM	531	CB	VAL	A	66	35.275	42.396	61.386	1.00	26.78	C
ATOM	532	CG1	VAL	A	66	34.258	43.311	62.037	1.00	25.11	C
ATOM	533	CG2	VAL	A	66	36.688	42.881	61.641	1.00	25.36	C
ATOM	534	N	ASN	A	67	32.940	40.198	62.683	1.00	25.22	N
ATOM	535	CA	ASN	A	67	31.567	39.765	62.486	1.00	25.50	C
ATOM	536	C	ASN	A	67	30.609	40.746	63.147	1.00	24.53	C
ATOM	537	O	ASN	A	67	30.986	41.472	64.065	1.00	25.06	O
ATOM	538	CB	ASN	A	67	31.352	38.332	63.008	1.00	23.06	C
ATOM	539	CG	ASN	A	67	31.634	38.183	64.495	1.00	25.11	C
ATOM	540	OD1	ASN	A	67	32.023	39.133	65.179	1.00	24.75	O
ATOM	541	ND2	ASN	A	67	31.432	36.971	65.005	1.00	22.84	N
ATOM	542	N	ALA	A	68	29.376	40.786	62.660	1.00	22.79	N
ATOM	543	CA	ALA	A	68	28.391	41.699	63.204	1.00	20.46	C
ATOM	544	C	ALA	A	68	27.004	41.129	63.051	1.00	19.93	C
ATOM	545	O	ALA	A	68	26.813	40.121	62.367	1.00	20.22	O
ATOM	546	CB	ALA	A	68	28.480	43.043	62.491	1.00	20.75	C
ATOM	547	N	LEU	A	69	26.045	41.787	63.697	1.00	18.77	N
ATOM	548	CA	LEU	A	69	24.643	41.396	63.649	1.00	18.16	C
ATOM	549	C	LEU	A	69	23.831	42.615	63.198	1.00	18.70	C
ATOM	550	O	LEU	A	69	24.134	43.746	63.576	1.00	19.36	O
ATOM	551	CB	LEU	A	69	24.173	40.938	65.038	1.00	17.74	C
ATOM	552	CG	LEU	A	69	24.847	39.706	65.665	1.00	18.55	C
ATOM	553	CD1	LEU	A	69	24.381	39.551	67.109	1.00	15.25	C
ATOM	554	CD2	LEU	A	69	24.521	38.447	64.858	1.00	16.47	C
ATOM	555	N	GLY	A	70	22.804	42.389	62.386	1.00	19.28	N
ATOM	556	CA	GLY	A	70	21.993	43.498	61.922	1.00	17.70	C
ATOM	557	C	GLY	A	70	21.289	44.176	63.080	1.00	18.86	C
ATOM	558	O	GLY	A	70	20.738	43.508	63.949	1.00	19.28	O
ATOM	559	N	ALA	A	71	21.316	45.504	63.095	1.00	18.56	N
ATOM	560	CA	ALA	A	71	20.675	46.289	64.143	1.00	17.23	C
ATOM	561	C	ALA	A	71	19.740	47.310	63.498	1.00	18.49	C
ATOM	562	O	ALA	A	71	20.131	47.989	62.537	1.00	16.80	O
ATOM	563	CB	ALA	A	71	21.727	47.002	64.974	1.00	15.96	C
ATOM	564	N	LEU	A	72	18.516	47.420	64.016	1.00	16.84	N
ATOM	565	CA	LEU	A	72	17.553	48.372	63.466	1.00	18.15	C
ATOM	566	C	LEU	A	72	17.146	49.480	64.449	1.00	17.87	C
ATOM	567	O	LEU	A	72	16.360	50.352	64.097	1.00	17.72	O
ATOM	568	CB	LEU	A	72	16.300	47.643	62.949	1.00	17.71	C
ATOM	569	CG	LEU	A	72	15.503	46.817	63.956	1.00	16.98	C
ATOM	570	CD1	LEU	A	72	14.047	47.237	63.914	1.00	19.35	C
ATOM	571	CD2	LEU	A	72	15.657	45.334	63.651	1.00	16.93	C
ATOM	572	N	THR	A	73	17.647	49.427	65.683	1.00	16.69	N
ATOM	573	CA	THR	A	73	17.369	50.482	66.668	1.00	16.19	C
ATOM	574	C	THR	A	73	18.663	50.797	67.422	1.00	16.39	C
ATOM	575	O	THR	A	73	19.609	50.003	67.419	1.00	12.86	O
ATOM	576	CB	THR	A	73	16.287	50.097	67.723	1.00	15.96	C
ATOM	577	OG1	THR	A	73	16.886	49.352	68.792	1.00	16.02	O
ATOM	578	CG2	THR	A	73	15.175	49.281	67.083	1.00	17.88	C
ATOM	579	N	GLY	A	74	18.700	51.961	68.064	1.00	16.81	N
ATOM	580	CA	GLY	A	74	19.881	52.353	68.806	1.00	16.34	C
ATOM	581	C	GLY	A	74	20.245	51.369	69.899	1.00	17.30	C
ATOM	582	O	GLY	A	74	21.391	50.928	69.977	1.00	20.22	O
ATOM	583	N	ASN	A	75	19.285	51.028	70.753	1.00	14.63	N
ATOM	584	CA	ASN	A	75	19.548	50.086	71.837	1.00	16.31	C
ATOM	585	C	ASN	A	75	20.112	48.764	71.315	1.00	17.42	C
ATOM	586	O	ASN	A	75	20.961	48.146	71.959	1.00	17.58	O
ATOM	587	CB	ASN	A	75	18.272	49.799	72.629	1.00	14.30	C
ATOM	588	CG	ASN	A	75	17.765	51.002	73.381	1.00	15.71	C
ATOM	589	OD1	ASN	A	75	18.285	52.114	73.242	1.00	18.05	O
ATOM	590	ND2	ASN	A	75	16.737	50.791	74.186	1.00	15.22	N
ATOM	591	N	MET	A	76	19.630	48.323	70.157	1.00	17.78	N
ATOM	592	CA	MET	A	76	20.115	47.076	69.587	1.00	18.03	C
ATOM	593	C	MET	A	76	21.626	47.115	69.455	1.00	18.41	C
ATOM	594	O	MET	A	76	22.321	46.211	69.922	1.00	19.16	O
ATOM	595	CB	MET	A	76	19.485	46.814	68.214	1.00	15.75	C
ATOM	596	CG	MET	A	76	18.245	45.955	68.286	1.00	16.41	C
ATOM	597	SD	MET	A	76	17.762	45.233	66.708	1.00	17.11	S
ATOM	598	CE	MET	A	76	15.994	44.970	67.019	1.00	15.38	C
ATOM	599	N	ALA	A	77	22.127	48.168	68.821	1.00	17.51	N



ATOM	600	CA	ALA	A	77	23.557	48.324	68.617	1.00	17.87	C
ATOM	601	C	ALA	A	77	24.301	48.383	69.946	1.00	17.86	C
ATOM	602	O	ALA	A	77	25.396	47.837	70.069	1.00	18.02	O
ATOM	603	CB	ALA	A	77	23.836	49.578	67.799	1.00	15.13	C
ATOM	604	N	VAL	A	78	23.705	49.043	70.936	1.00	17.39	N
ATOM	605	CA	VAL	A	78	24.326	49.163	72.249	1.00	16.87	C
ATOM	606	C	VAL	A	78	24.558	47.790	72.873	1.00	19.27	C
ATOM	607	O	VAL	A	78	25.632	47.513	73.413	1.00	20.83	O
ATOM	608	CB	VAL	A	78	23.459	50.009	73.208	1.00	17.24	C
ATOM	609	CG1	VAL	A	78	23.964	49.868	74.642	1.00	14.76	C
ATOM	610	CG2	VAL	A	78	23.503	51.473	72.783	1.00	15.79	C
ATOM	611	N	GLN	A	79	23.551	46.930	72.796	1.00	18.47	N
ATOM	612	CA	GLN	A	79	23.667	45.595	73.356	1.00	19.44	C
ATOM	613	C	GLN	A	79	24.716	44.788	72.604	1.00	19.49	C
ATOM	614	O	GLN	A	79	25.471	44.034	73.208	1.00	20.37	O
ATOM	615	CB	GLN	A	79	22.315	44.880	73.312	1.00	17.80	C
ATOM	616	CG	GLN	A	79	21.264	45.516	74.208	1.00	16.37	C
ATOM	617	CD	GLN	A	79	21.763	45.746	75.628	1.00	18.81	C
ATOM	618	OE1	GLN	A	79	22.607	45.000	76.129	1.00	19.19	O
ATOM	619	NE2	GLN	A	79	21.230	46.774	76.289	1.00	14.36	N
ATOM	620	N	GLN	A	80	24.767	44.956	71.285	1.00	20.51	N
ATOM	621	CA	GLN	A	80	25.734	44.242	70.461	1.00	20.08	C
ATOM	622	C	GLN	A	80	27.163	44.585	70.882	1.00	22.09	C
ATOM	623	O	GLN	A	80	28.013	43.696	70.984	1.00	22.63	O
ATOM	624	CB	GLN	A	80	25.496	44.564	68.980	1.00	20.30	C
ATOM	625	CG	GLN	A	80	24.239	43.885	68.418	1.00	18.26	C
ATOM	626	CD	GLN	A	80	23.815	44.410	67.060	1.00	17.33	C
ATOM	627	OE1	GLN	A	80	24.505	45.224	66.444	1.00	17.82	O
ATOM	628	NE2	GLN	A	80	22.669	43.941	66.583	1.00	17.01	N
ATOM	629	N	VAL	A	81	27.422	45.866	71.140	1.00	22.26	N
ATOM	630	CA	VAL	A	81	28.744	46.305	71.579	1.00	22.29	C
ATOM	631	C	VAL	A	81	28.999	45.854	73.020	1.00	23.52	C
ATOM	632	O	VAL	A	81	30.098	45.400	73.347	1.00	25.17	O
ATOM	633	CB	VAL	A	81	28.898	47.849	71.519	1.00	20.51	C
ATOM	634	CG1	VAL	A	81	30.206	48.267	72.187	1.00	20.93	C
ATOM	635	CG2	VAL	A	81	28.888	48.323	70.080	1.00	17.81	C
ATOM	636	N	ARG	A	82	27.988	45.995	73.876	1.00	23.83	N
ATOM	637	CA	ARG	A	82	28.088	45.590	75.279	1.00	23.77	C
ATOM	638	C	ARG	A	82	28.439	44.104	75.377	1.00	24.41	C
ATOM	639	O	ARG	A	82	29.124	43.685	76.309	1.00	24.34	O
ATOM	640	CB	ARG	A	82	26.757	45.846	76.007	1.00	23.48	C
ATOM	641	CG	ARG	A	82	26.655	45.231	77.416	1.00	23.29	C
ATOM	642	CD	ARG	A	82	27.528	45.962	78.434	1.00	25.63	C
ATOM	643	NE	ARG	A	82	26.946	47.243	78.829	1.00	28.41	N
ATOM	644	CZ	ARG	A	82	27.544	48.137	79.611	1.00	28.97	C
ATOM	645	NH1	ARG	A	82	28.759	47.902	80.095	1.00	28.10	N
ATOM	646	NH2	ARG	A	82	26.922	49.270	79.914	1.00	27.24	N
ATOM	647	N	ALA	A	83	27.960	43.318	74.414	1.00	23.38	N
ATOM	648	CA	ALA	A	83	28.214	41.877	74.386	1.00	24.54	C
ATOM	649	C	ALA	A	83	29.577	41.506	73.807	1.00	23.02	C
ATOM	650	O	ALA	A	83	29.951	40.342	73.803	1.00	24.48	O
ATOM	651	CB	ALA	A	83	27.116	41.166	73.609	1.00	24.15	C
ATOM	652	N	GLY	A	84	30.313	42.486	73.301	1.00	24.92	N
ATOM	653	CA	GLY	A	84	31.631	42.192	72.769	1.00	24.71	C
ATOM	654	C	GLY	A	84	31.845	42.374	71.280	1.00	26.51	C
ATOM	655	O	GLY	A	84	32.987	42.358	70.821	1.00	26.33	O
ATOM	656	N	LEU	A	85	30.769	42.546	70.517	1.00	25.72	N
ATOM	657	CA	LEU	A	85	30.910	42.718	69.075	1.00	24.93	C
ATOM	658	C	LEU	A	85	31.622	44.030	68.774	1.00	24.09	C
ATOM	659	O	LEU	A	85	31.417	45.029	69.460	1.00	23.52	O
ATOM	660	CB	LEU	A	85	29.535	42.667	68.398	1.00	23.75	C
ATOM	661	CG	LEU	A	85	28.754	41.373	68.656	1.00	21.51	C
ATOM	662	CD1	LEU	A	85	27.554	41.317	67.735	1.00	21.61	C
ATOM	663	CD2	LEU	A	85	29.643	40.163	68.419	1.00	21.43	C
ATOM	664	N	LYS	A	86	32.462	44.026	67.748	1.00	24.84	N
ATOM	665	CA	LYS	A	86	33.223	45.217	67.406	1.00	26.49	C
ATOM	666	C	LYS	A	86	32.799	45.918	66.123	1.00	26.79	C
ATOM	667	O	LYS	A	86	33.514	46.778	65.609	1.00	28.34	O
ATOM	668	CB	LYS	A	86	34.709	44.870	67.356	1.00	28.60	C
ATOM	669	CG	LYS	A	86	35.246	44.426	68.702	1.00	32.94	C
ATOM	670	CD	LYS	A	86	36.739	44.177	68.664	1.00	36.54	C
ATOM	671	CE	LYS	A	86	37.259	43.790	70.046	1.00	38.57	C
ATOM	672	NZ	LYS	A	86	38.704	43.440	70.012	1.00	40.54	N
ATOM	673	N	ALA	A	87	31.633	45.555	65.608	1.00	25.39	N
ATOM	674	CA	ALA	A	87	31.117	46.177	64.397	1.00	24.65	C
ATOM	675	C	ALA	A	87	29.598	46.086	64.396	1.00	22.95	C
ATOM	676	O	ALA	A	87	29.021	45.197	65.018	1.00	21.53	O
ATOM	677	CB	ALA	A	87	31.692	45.488	63.157	1.00	23.79	C
ATOM	678	N	ILE	A	88	28.951	47.019	63.712	1.00	21.55	N
ATOM	679	CA	ILE	A	88	27.498	47.011	63.636	1.00	20.75	C



ATOM	680	C	ILE	A	88	27.041	46.918	62.193	1.00	19.26	C
ATOM	681	O	ILE	A	88	27.508	47.667	61.343	1.00	20.68	O
ATOM	682	CB	ILE	A	88	26.907	48.285	64.267	1.00	20.65	C
ATOM	683	CG1	ILE	A	88	27.231	48.313	65.760	1.00	21.70	C
ATOM	684	CG2	ILE	A	88	25.404	48.324	64.061	1.00	19.15	C
ATOM	685	CD1	ILE	A	88	26.884	49.601	66.415	1.00	25.50	C
ATOM	686	N	TYR	A	89	26.141	45.986	61.908	1.00	19.60	N
ATOM	687	CA	TYR	A	89	25.635	45.864	60.549	1.00	19.68	C
ATOM	688	C	TYR	A	89	24.253	46.497	60.463	1.00	18.11	C
ATOM	689	O	TYR	A	89	23.356	46.158	61.232	1.00	16.50	O
ATOM	690	CB	TYR	A	89	25.550	44.400	60.100	1.00	20.23	C
ATOM	691	CG	TYR	A	89	25.021	44.298	58.693	1.00	18.39	C
ATOM	692	CD1	TYR	A	89	25.736	44.838	57.620	1.00	19.48	C
ATOM	693	CD2	TYR	A	89	23.757	43.781	58.445	1.00	19.34	C
ATOM	694	CE1	TYR	A	89	25.198	44.878	56.340	1.00	16.73	C
ATOM	695	CE2	TYR	A	89	23.207	43.812	57.169	1.00	20.77	C
ATOM	696	CZ	TYR	A	89	23.933	44.368	56.124	1.00	19.42	C
ATOM	697	OH	TYR	A	89	23.369	44.442	54.879	1.00	19.29	O
ATOM	698	N	LEU	A	90	24.092	47.419	59.521	1.00	18.07	N
ATOM	699	CA	LEU	A	90	22.824	48.117	59.337	1.00	18.70	C
ATOM	700	C	LEU	A	90	22.139	47.595	58.075	1.00	19.20	C
ATOM	701	O	LEU	A	90	22.462	47.996	56.956	1.00	18.96	O
ATOM	702	CB	LEU	A	90	23.079	49.624	59.255	1.00	18.04	C
ATOM	703	CG	LEU	A	90	21.942	50.639	59.062	1.00	19.94	C
ATOM	704	CD1	LEU	A	90	20.571	50.022	59.288	1.00	21.28	C
ATOM	705	CD2	LEU	A	90	22.178	51.792	60.013	1.00	17.58	C
ATOM	706	N	SER	A	91	21.198	46.682	58.286	1.00	17.44	N
ATOM	707	CA	SER	A	91	20.447	46.041	57.215	1.00	17.54	C
ATOM	708	C	SER	A	91	19.369	46.922	56.592	1.00	16.06	C
ATOM	709	O	SER	A	91	18.575	47.533	57.302	1.00	14.49	O
ATOM	710	CB	SER	A	91	19.806	44.757	57.752	1.00	16.74	C
ATOM	711	OG	SER	A	91	18.784	44.297	56.890	1.00	18.73	O
ATOM	712	N	GLY	A	92	19.356	46.982	55.262	1.00	15.59	N
ATOM	713	CA	GLY	A	92	18.352	47.757	54.556	1.00	15.57	C
ATOM	714	C	GLY	A	92	17.035	46.996	54.581	1.00	16.39	C
ATOM	715	O	GLY	A	92	15.963	47.591	54.511	1.00	18.10	O
ATOM	716	N	TRP	A	93	17.130	45.672	54.674	1.00	16.47	N
ATOM	717	CA	TRP	A	93	15.968	44.789	54.749	1.00	14.65	C
ATOM	718	C	TRP	A	93	15.199	45.138	56.032	1.00	15.35	C
ATOM	719	O	TRP	A	93	13.990	45.377	55.998	1.00	12.98	O
ATOM	720	CB	TRP	A	93	16.437	43.318	54.806	1.00	15.80	C
ATOM	721	CG	TRP	A	93	15.340	42.281	54.696	1.00	14.51	C
ATOM	722	CD1	TRP	A	93	15.082	41.480	53.625	1.00	14.79	C
ATOM	723	CD2	TRP	A	93	14.344	41.964	55.680	1.00	14.17	C
ATOM	724	NE1	TRP	A	93	13.991	40.687	53.873	1.00	14.43	N
ATOM	725	CE2	TRP	A	93	13.517	40.963	55.128	1.00	16.12	C
ATOM	726	CE3	TRP	A	93	14.070	42.428	56.971	1.00	15.55	C
ATOM	727	CZ2	TRP	A	93	12.430	40.416	55.823	1.00	15.96	C
ATOM	728	CZ3	TRP	A	93	12.983	41.882	57.665	1.00	16.53	C
ATOM	729	CH2	TRP	A	93	12.179	40.887	57.085	1.00	15.69	C
ATOM	730	N	GLN	A	94	15.911	45.168	57.161	1.00	14.98	N
ATOM	731	CA	GLN	A	94	15.292	45.473	58.455	1.00	15.38	C
ATOM	732	C	GLN	A	94	14.670	46.866	58.469	1.00	14.61	C
ATOM	733	O	GLN	A	94	13.617	47.081	59.079	1.00	14.36	O
ATOM	734	CB	GLN	A	94	16.317	45.349	59.593	1.00	14.76	C
ATOM	735	CG	GLN	A	94	16.971	43.971	59.704	1.00	15.41	C
ATOM	736	CD	GLN	A	94	17.831	43.799	60.965	1.00	17.54	C
ATOM	737	OE1	GLN	A	94	18.605	44.690	61.350	1.00	16.74	O
ATOM	738	NE2	GLN	A	94	17.707	42.639	61.599	1.00	15.23	N
ATOM	739	N	VAL	A	95	15.326	47.810	57.798	1.00	13.35	N
ATOM	740	CA	VAL	A	95	14.840	49.184	57.716	1.00	13.95	C
ATOM	741	C	VAL	A	95	13.517	49.204	56.944	1.00	15.54	C
ATOM	742	O	VAL	A	95	12.583	49.910	57.312	1.00	17.56	O
ATOM	743	CB	VAL	A	95	15.891	50.086	57.020	1.00	14.26	C
ATOM	744	CG1	VAL	A	95	15.250	51.357	56.499	1.00	14.46	C
ATOM	745	CG2	VAL	A	95	17.003	50.425	58.002	1.00	11.41	C
ATOM	746	N	ALA	A	96	13.448	48.424	55.868	1.00	15.36	N
ATOM	747	CA	ALA	A	96	12.234	48.335	55.072	1.00	14.49	C
ATOM	748	C	ALA	A	96	11.133	47.679	55.906	1.00	14.56	C
ATOM	749	O	ALA	A	96	9.974	48.094	55.883	1.00	15.54	O
ATOM	750	CB	ALA	A	96	12.492	47.509	53.832	1.00	12.18	C
ATOM	751	N	GLY	A	97	11.508	46.655	56.657	1.00	13.90	N
ATOM	752	CA	GLY	A	97	10.531	45.948	57.455	1.00	13.72	C
ATOM	753	C	GLY	A	97	10.023	46.623	58.712	1.00	14.49	C
ATOM	754	O	GLY	A	97	8.841	46.486	59.035	1.00	14.03	O
ATOM	755	N	ASP	A	98	10.876	47.371	59.411	1.00	12.90	N
ATOM	756	CA	ASP	A	98	10.441	47.974	60.664	1.00	12.95	C
ATOM	757	C	ASP	A	98	11.106	49.287	61.093	1.00	14.77	C
ATOM	758	O	ASP	A	98	10.936	49.712	62.237	1.00	14.36	O
ATOM	759	CB	ASP	A	98	10.629	46.924	61.763	1.00	13.49	C



ATOM	760	CG	ASP	A	98	9.732	47.141	62.952	1.00	12.45	C
ATOM	761	OD1	ASP	A	98	8.658	47.761	62.810	1.00	12.35	O
ATOM	762	OD2	ASP	A	98	10.097	46.659	64.039	1.00	15.71	O
ATOM	763	N	ALA	A	99	11.838	49.951	60.201	1.00	14.73	N
ATOM	764	CA	ALA	A	99	12.509	51.186	60.603	1.00	14.91	C
ATOM	765	C	ALA	A	99	12.815	52.180	59.488	1.00	16.00	C
ATOM	766	O	ALA	A	99	13.953	52.648	59.374	1.00	17.42	O
ATOM	767	CB	ALA	A	99	13.816	50.838	61.346	1.00	12.23	C
ATOM	768	N	ASN	A	100	11.828	52.514	58.661	1.00	15.81	N
ATOM	769	CA	ASN	A	100	12.090	53.473	57.596	1.00	16.10	C
ATOM	770	C	ASN	A	100	11.207	54.714	57.715	1.00	17.17	C
ATOM	771	O	ASN	A	100	10.155	54.697	58.366	1.00	15.67	O
ATOM	772	CB	ASN	A	100	11.946	52.817	56.216	1.00	15.66	C
ATOM	773	CG	ASN	A	100	10.513	52.455	55.879	1.00	17.52	C
ATOM	774	OD1	ASN	A	100	10.054	51.331	56.129	1.00	19.78	O
ATOM	775	ND2	ASN	A	100	9.797	53.407	55.306	1.00	13.67	N
ATOM	776	N	LEU	A	101	11.642	55.792	57.075	1.00	16.02	N
ATOM	777	CA	LEU	A	101	10.940	57.060	57.138	1.00	13.64	C
ATOM	778	C	LEU	A	101	9.522	57.119	56.564	1.00	15.08	C
ATOM	779	O	LEU	A	101	8.819	58.100	56.784	1.00	15.10	O
ATOM	780	CB	LEU	A	101	11.819	58.148	56.508	1.00	13.38	C
ATOM	781	CG	LEU	A	101	13.169	58.285	57.231	1.00	17.24	C
ATOM	782	CD1	LEU	A	101	14.122	59.184	56.460	1.00	15.84	C
ATOM	783	CD2	LEU	A	101	12.922	58.833	58.635	1.00	16.34	C
ATOM	784	N	SER	A	102	9.074	56.095	55.844	1.00	14.31	N
ATOM	785	CA	SER	A	102	7.709	56.158	55.313	1.00	14.98	C
ATOM	786	C	SER	A	102	6.720	55.765	56.405	1.00	14.95	C
ATOM	787	O	SER	A	102	5.531	56.065	56.318	1.00	14.27	O
ATOM	788	CB	SER	A	102	7.520	55.203	54.141	1.00	10.85	C
ATOM	789	OG	SER	A	102	7.319	53.888	54.625	1.00	12.29	O
ATOM	790	N	GLY	A	103	7.225	55.080	57.425	1.00	16.42	N
ATOM	791	CA	GLY	A	103	6.381	54.626	58.514	1.00	16.46	C
ATOM	792	C	GLY	A	103	5.733	53.291	58.184	1.00	16.41	C
ATOM	793	O	GLY	A	103	5.076	52.690	59.028	1.00	17.22	O
ATOM	794	N	HIS	A	104	5.922	52.822	56.954	1.00	16.50	N
ATOM	795	CA	HIS	A	104	5.337	51.558	56.514	1.00	16.29	C
ATOM	796	C	HIS	A	104	6.253	50.340	56.589	1.00	15.89	C
ATOM	797	O	HIS	A	104	7.479	50.459	56.674	1.00	15.01	O
ATOM	798	CB	HIS	A	104	4.808	51.684	55.078	1.00	14.04	C
ATOM	799	CG	HIS	A	104	3.547	52.482	54.970	1.00	17.32	C
ATOM	800	ND1	HIS	A	104	3.513	53.759	54.448	1.00	17.48	N
ATOM	801	CD2	HIS	A	104	2.277	52.193	55.339	1.00	15.12	C
ATOM	802	CE1	HIS	A	104	2.278	54.223	54.503	1.00	18.17	C
ATOM	803	NE2	HIS	A	104	1.508	53.292	55.039	1.00	20.87	N
ATOM	804	N	THR	A	105	5.623	49.167	56.550	1.00	15.79	N
ATOM	805	CA	THR	A	105	6.304	47.882	56.577	1.00	14.00	C
ATOM	806	C	THR	A	105	6.435	47.478	55.113	1.00	15.81	C
ATOM	807	O	THR	A	105	5.447	47.438	54.379	1.00	15.80	O
ATOM	808	CB	THR	A	105	5.463	46.841	57.349	1.00	15.45	C
ATOM	809	OG1	THR	A	105	5.377	47.237	58.722	1.00	14.73	O
ATOM	810	CG2	THR	A	105	6.083	45.449	57.258	1.00	13.02	C
ATOM	811	N	TYR	A	106	7.655	47.194	54.679	1.00	15.23	N
ATOM	812	CA	TYR	A	106	7.871	46.832	53.286	1.00	15.72	C
ATOM	813	C	TYR	A	106	8.760	45.624	53.073	1.00	16.13	C
ATOM	814	O	TYR	A	106	9.589	45.288	53.918	1.00	14.74	O
ATOM	815	CB	TYR	A	106	8.546	47.978	52.530	1.00	15.06	C
ATOM	816	CG	TYR	A	106	7.742	49.247	52.334	1.00	15.55	C
ATOM	817	CD1	TYR	A	106	6.468	49.215	51.768	1.00	14.40	C
ATOM	818	CD2	TYR	A	106	8.306	50.491	52.622	1.00	13.32	C
ATOM	819	CE1	TYR	A	106	5.775	50.391	51.483	1.00	15.55	C
ATOM	820	CE2	TYR	A	106	7.631	51.675	52.345	1.00	15.02	C
ATOM	821	CZ	TYR	A	106	6.364	51.619	51.775	1.00	16.59	C
ATOM	822	OH	TYR	A	106	5.686	52.784	51.522	1.00	13.42	O
ATOM	823	N	PRO	A	107	8.574	44.933	51.940	1.00	17.10	N
ATOM	824	CA	PRO	A	107	9.432	43.781	51.665	1.00	15.72	C
ATOM	825	C	PRO	A	107	10.732	44.466	51.194	1.00	17.40	C
ATOM	826	O	PRO	A	107	10.735	45.677	50.943	1.00	15.66	O
ATOM	827	CB	PRO	A	107	8.685	43.048	50.551	1.00	14.80	C
ATOM	828	CG	PRO	A	107	7.930	44.142	49.854	1.00	16.20	C
ATOM	829	CD	PRO	A	107	7.433	44.982	51.006	1.00	15.78	C
ATOM	830	N	ASP	A	108	11.823	43.722	51.069	1.00	18.54	N
ATOM	831	CA	ASP	A	108	13.109	44.313	50.684	1.00	18.99	C
ATOM	832	C	ASP	A	108	13.279	44.629	49.189	1.00	19.73	C
ATOM	833	O	ASP	A	108	14.031	43.957	48.480	1.00	18.46	O
ATOM	834	CB	ASP	A	108	14.224	43.388	51.166	1.00	19.82	C
ATOM	835	CG	ASP	A	108	15.586	43.998	51.015	1.00	22.92	C
ATOM	836	OD1	ASP	A	108	15.685	45.246	51.047	1.00	22.59	O
ATOM	837	OD2	ASP	A	108	16.556	43.225	50.875	1.00	24.01	O
ATOM	838	N	GLN	A	109	12.608	45.685	48.724	1.00	20.06	N
ATOM	839	CA	GLN	A	109	12.650	46.058	47.315	1.00	18.32	C



ATOM	840	C	GLN	A	109	12.863	47.560	47.048	1.00	19.95	C
ATOM	841	O	GLN	A	109	12.285	48.121	46.109	1.00	18.00	O
ATOM	842	CB	GLN	A	109	11.352	45.574	46.651	1.00	19.55	C
ATOM	843	CG	GLN	A	109	11.130	44.058	46.789	1.00	21.32	C
ATOM	844	CD	GLN	A	109	9.787	43.579	46.256	1.00	22.36	C
ATOM	845	OE1	GLN	A	109	9.415	43.863	45.118	1.00	22.96	O
ATOM	846	NE2	GLN	A	109	9.058	42.835	47.080	1.00	23.25	N
ATOM	847	N	SER	A	110	13.699	48.203	47.865	1.00	18.95	N
ATOM	848	CA	SER	A	110	13.977	49.633	47.714	1.00	18.00	C
ATOM	849	C	SER	A	110	12.690	50.450	47.597	1.00	17.13	C
ATOM	850	O	SER	A	110	12.576	51.329	46.736	1.00	16.65	O
ATOM	851	CB	SER	A	110	14.846	49.889	46.472	1.00	19.09	C
ATOM	852	OG	SER	A	110	16.128	49.298	46.593	1.00	18.97	O
ATOM	853	N	LEU	A	111	11.729	50.173	48.471	1.00	15.76	N
ATOM	854	CA	LEU	A	111	10.453	50.874	48.442	1.00	14.50	C
ATOM	855	C	LEU	A	111	10.412	52.100	49.353	1.00	14.95	C
ATOM	856	O	LEU	A	111	9.602	53.007	49.145	1.00	14.64	O
ATOM	857	CB	LEU	A	111	9.320	49.915	48.833	1.00	14.88	C
ATOM	858	CG	LEU	A	111	9.030	48.714	47.919	1.00	14.65	C
ATOM	859	CD1	LEU	A	111	7.915	47.881	48.513	1.00	10.92	C
ATOM	860	CD2	LEU	A	111	8.626	49.199	46.528	1.00	15.38	C
ATOM	861	N	TYR	A	112	11.295	52.132	50.348	1.00	14.01	N
ATOM	862	CA	TYR	A	112	11.331	53.226	51.314	1.00	14.63	C
ATOM	863	C	TYR	A	112	12.122	54.461	50.862	1.00	14.37	C
ATOM	864	O	TYR	A	112	12.932	54.381	49.935	1.00	16.18	O
ATOM	865	CB	TYR	A	112	11.874	52.697	52.653	1.00	14.37	C
ATOM	866	CG	TYR	A	112	13.300	52.162	52.609	1.00	15.70	C
ATOM	867	CD1	TYR	A	112	14.390	53.028	52.504	1.00	14.12	C
ATOM	868	CD2	TYR	A	112	13.555	50.791	52.701	1.00	14.60	C
ATOM	869	CE1	TYR	A	112	15.707	52.543	52.495	1.00	15.29	C
ATOM	870	CE2	TYR	A	112	14.864	50.295	52.691	1.00	16.83	C
ATOM	871	CZ	TYR	A	112	15.933	51.180	52.588	1.00	15.94	C
ATOM	872	OH	TYR	A	112	17.224	50.703	52.563	1.00	18.24	O
ATOM	873	N	PRO	A	113	11.893	55.621	51.517	1.00	13.11	N
ATOM	874	CA	PRO	A	113	12.577	56.885	51.195	1.00	13.51	C
ATOM	875	C	PRO	A	113	14.091	56.701	51.320	1.00	12.39	C
ATOM	876	O	PRO	A	113	14.562	56.215	52.339	1.00	11.47	O
ATOM	877	CB	PRO	A	113	12.028	57.860	52.246	1.00	12.86	C
ATOM	878	CG	PRO	A	113	10.696	57.305	52.579	1.00	14.13	C
ATOM	879	CD	PRO	A	113	10.980	55.812	52.657	1.00	13.38	C
ATOM	880	N	ALA	A	114	14.838	57.121	50.303	1.00	12.29	N
ATOM	881	CA	ALA	A	114	16.297	56.947	50.262	1.00	13.41	C
ATOM	882	C	ALA	A	114	17.158	57.458	51.421	1.00	14.50	C
ATOM	883	O	ALA	A	114	18.313	57.049	51.560	1.00	16.33	O
ATOM	884	CB	ALA	A	114	16.842	57.507	48.945	1.00	13.80	C
ATOM	885	N	ASN	A	115	16.638	58.354	52.245	1.00	13.77	N
ATOM	886	CA	ASN	A	115	17.444	58.842	53.356	1.00	15.12	C
ATOM	887	C	ASN	A	115	17.163	58.067	54.652	1.00	13.91	C
ATOM	888	O	ASN	A	115	17.583	58.482	55.728	1.00	14.85	O
ATOM	889	CB	ASN	A	115	17.214	60.350	53.558	1.00	14.13	C
ATOM	890	CG	ASN	A	115	15.780	60.683	53.908	1.00	16.01	C
ATOM	891	OD1	ASN	A	115	14.842	60.038	53.433	1.00	14.72	O
ATOM	892	ND2	ASN	A	115	15.598	61.708	54.734	1.00	14.78	N
ATOM	893	N	SER	A	116	16.481	56.928	54.535	1.00	12.83	N
ATOM	894	CA	SER	A	116	16.133	56.109	55.696	1.00	13.22	C
ATOM	895	C	SER	A	116	17.324	55.431	56.383	1.00	13.12	C
ATOM	896	O	SER	A	116	17.435	55.467	57.605	1.00	13.43	O
ATOM	897	CB	SER	A	116	15.099	55.043	55.304	1.00	14.89	C
ATOM	898	OG	SER	A	116	13.824	55.614	55.035	1.00	14.66	O
ATOM	899	N	VAL	A	117	18.203	54.789	55.621	1.00	11.52	N
ATOM	900	CA	VAL	A	117	19.348	54.143	56.252	1.00	12.67	C
ATOM	901	C	VAL	A	117	20.257	55.190	56.915	1.00	13.35	C
ATOM	902	O	VAL	A	117	20.693	55.004	58.048	1.00	15.00	O
ATOM	903	CB	VAL	A	117	20.118	53.251	55.246	1.00	13.98	C
ATOM	904	CG1	VAL	A	117	21.424	52.763	55.856	1.00	12.91	C
ATOM	905	CG2	VAL	A	117	19.252	52.039	54.882	1.00	10.50	C
ATOM	906	N	PRO	A	118	20.554	56.303	56.222	1.00	12.48	N
ATOM	907	CA	PRO	A	118	21.402	57.332	56.834	1.00	14.61	C
ATOM	908	C	PRO	A	118	20.862	57.725	58.220	1.00	14.68	C
ATOM	909	O	PRO	A	118	21.616	57.869	59.178	1.00	14.33	O
ATOM	910	CB	PRO	A	118	21.305	58.491	55.839	1.00	14.71	C
ATOM	911	CG	PRO	A	118	21.260	57.770	54.529	1.00	15.90	C
ATOM	912	CD	PRO	A	118	20.307	56.605	54.800	1.00	13.01	C
ATOM	913	N	GLN	A	119	19.549	57.902	58.314	1.00	16.22	N
ATOM	914	CA	GLN	A	119	18.925	58.266	59.587	1.00	18.27	C
ATOM	915	C	GLN	A	119	19.198	57.218	60.657	1.00	16.55	C
ATOM	916	O	GLN	A	119	19.493	57.555	61.800	1.00	15.44	O
ATOM	917	CB	GLN	A	119	17.415	58.433	59.419	1.00	21.76	C
ATOM	918	CG	GLN	A	119	16.996	59.794	58.892	1.00	30.11	C
ATOM	919	CD	GLN	A	119	17.444	60.928	59.800	1.00	33.27	C



ATOM	920	OE1	GLN	A	119	18.595	61.368	59.739	1.00	35.95	O
ATOM	921	NE2	GLN	A	119	16.537	61.397	60.660	1.00	34.47	N
ATOM	922	N	VAL	A	120	19.093	55.946	60.285	1.00	15.75	N
ATOM	923	CA	VAL	A	120	19.348	54.873	61.234	1.00	15.54	C
ATOM	924	C	VAL	A	120	20.817	54.881	61.659	1.00	17.43	C
ATOM	925	O	VAL	A	120	21.125	54.601	62.818	1.00	17.26	O
ATOM	926	CB	VAL	A	120	18.979	53.498	60.632	1.00	16.19	C
ATOM	927	CG1	VAL	A	120	19.318	52.386	61.621	1.00	14.15	C
ATOM	928	CG2	VAL	A	120	17.481	53.469	60.308	1.00	16.52	C
ATOM	929	N	VAL	A	121	21.719	55.202	60.726	1.00	16.62	N
ATOM	930	CA	VAL	A	121	23.146	55.261	61.039	1.00	16.33	C
ATOM	931	C	VAL	A	121	23.361	56.351	62.091	1.00	17.49	C
ATOM	932	O	VAL	A	121	24.055	56.140	63.093	1.00	17.74	O
ATOM	933	CB	VAL	A	121	24.004	55.604	59.784	1.00	16.60	C
ATOM	934	CG1	VAL	A	121	25.432	55.953	60.204	1.00	16.63	C
ATOM	935	CG2	VAL	A	121	24.031	54.417	58.824	1.00	15.25	C
ATOM	936	N	ARG	A	122	22.761	57.517	61.855	1.00	15.43	N
ATOM	937	CA	ARG	A	122	22.869	58.639	62.780	1.00	15.28	C
ATOM	938	C	ARG	A	122	22.298	58.228	64.131	1.00	17.08	C
ATOM	939	O	ARG	A	122	22.873	58.530	65.186	1.00	16.87	O
ATOM	940	CB	ARG	A	122	22.103	59.846	62.228	1.00	14.60	C
ATOM	941	CG	ARG	A	122	22.137	61.100	63.095	1.00	16.21	C
ATOM	942	CD	ARG	A	122	23.547	61.674	63.227	1.00	17.26	C
ATOM	943	NE	ARG	A	122	24.225	61.229	64.442	1.00	17.99	N
ATOM	944	CZ	ARG	A	122	25.442	61.631	64.805	1.00	18.75	C
ATOM	945	NH1	ARG	A	122	26.103	62.482	64.035	1.00	15.15	N
ATOM	946	NH2	ARG	A	122	25.990	61.200	65.942	1.00	14.32	N
ATOM	947	N	ARG	A	123	21.163	57.534	64.094	1.00	15.95	N
ATOM	948	CA	ARG	A	123	20.520	57.067	65.314	1.00	15.39	C
ATOM	949	C	ARG	A	123	21.414	56.090	66.068	1.00	14.94	C
ATOM	950	O	ARG	A	123	21.560	56.178	67.287	1.00	14.86	O
ATOM	951	CB	ARG	A	123	19.180	56.393	64.989	1.00	16.23	C
ATOM	952	CG	ARG	A	123	18.614	55.550	66.128	1.00	16.26	C
ATOM	953	CD	ARG	A	123	18.428	56.364	67.404	1.00	15.79	C
ATOM	954	NE	ARG	A	123	18.124	55.486	68.529	1.00	17.29	N
ATOM	955	CZ	ARG	A	123	18.468	55.728	69.788	1.00	15.65	C
ATOM	956	NH1	ARG	A	123	19.129	56.837	70.098	1.00	12.81	N
ATOM	957	NH2	ARG	A	123	18.183	54.838	70.732	1.00	13.89	N
ATOM	958	N	ILE	A	124	22.000	55.149	65.344	1.00	15.11	N
ATOM	959	CA	ILE	A	124	22.870	54.169	65.977	1.00	17.68	C
ATOM	960	C	ILE	A	124	24.067	54.849	66.639	1.00	17.43	C
ATOM	961	O	ILE	A	124	24.401	54.543	67.784	1.00	19.02	O
ATOM	962	CB	ILE	A	124	23.342	53.100	64.960	1.00	16.62	C
ATOM	963	CG1	ILE	A	124	22.189	52.118	64.703	1.00	16.70	C
ATOM	964	CG2	ILE	A	124	24.586	52.389	65.484	1.00	16.27	C
ATOM	965	CD1	ILE	A	124	22.462	51.050	63.654	1.00	17.20	C
ATOM	966	N	ASN	A	125	24.708	55.771	65.929	1.00	17.56	N
ATOM	967	CA	ASN	A	125	25.836	56.481	66.507	1.00	16.12	C
ATOM	968	C	ASN	A	125	25.415	57.255	67.752	1.00	16.67	C
ATOM	969	O	ASN	A	125	26.142	57.264	68.743	1.00	17.22	O
ATOM	970	CB	ASN	A	125	26.475	57.424	65.483	1.00	16.30	C
ATOM	971	CG	ASN	A	125	27.500	56.716	64.612	1.00	18.46	C
ATOM	972	OD1	ASN	A	125	28.197	55.815	65.077	1.00	17.63	O
ATOM	973	ND2	ASN	A	125	27.603	57.121	63.347	1.00	17.74	N
ATOM	974	N	ASN	A	126	24.250	57.902	67.711	1.00	16.09	N
ATOM	975	CA	ASN	A	126	23.766	58.652	68.874	1.00	16.63	C
ATOM	976	C	ASN	A	126	23.604	57.735	70.091	1.00	17.54	C
ATOM	977	O	ASN	A	126	23.971	58.100	71.214	1.00	18.29	O
ATOM	978	CB	ASN	A	126	22.410	59.317	68.592	1.00	16.79	C
ATOM	979	CG	ASN	A	126	22.499	60.452	67.581	1.00	16.80	C
ATOM	980	OD1	ASN	A	126	23.575	60.992	67.319	1.00	14.48	O
ATOM	981	ND2	ASN	A	126	21.354	60.834	67.029	1.00	13.20	N
ATOM	982	N	ALA	A	127	23.046	56.550	69.863	1.00	16.05	N
ATOM	983	CA	ALA	A	127	22.820	55.590	70.939	1.00	16.74	C
ATOM	984	C	ALA	A	127	24.139	55.119	71.528	1.00	15.55	C
ATOM	985	O	ALA	A	127	24.269	54.969	72.740	1.00	15.78	O
ATOM	986	CB	ALA	A	127	22.018	54.398	70.421	1.00	15.66	C
ATOM	987	N	LEU	A	128	25.117	54.887	70.660	1.00	16.29	N
ATOM	988	CA	LEU	A	128	26.437	54.443	71.093	1.00	15.44	C
ATOM	989	C	LEU	A	128	27.166	55.544	71.847	1.00	16.11	C
ATOM	990	O	LEU	A	128	27.949	55.264	72.752	1.00	17.33	O
ATOM	991	CB	LEU	A	128	27.271	54.004	69.891	1.00	13.65	C
ATOM	992	CG	LEU	A	128	26.786	52.733	69.193	1.00	14.98	C
ATOM	993	CD1	LEU	A	128	27.642	52.465	67.967	1.00	13.00	C
ATOM	994	CD2	LEU	A	128	26.843	51.556	70.168	1.00	11.76	C
ATOM	995	N	GLN	A	129	26.916	56.795	71.468	1.00	15.69	N
ATOM	996	CA	GLN	A	129	27.555	57.923	72.138	1.00	16.61	C
ATOM	997	C	GLN	A	129	26.992	58.076	73.543	1.00	16.69	C
ATOM	998	O	GLN	A	129	27.716	58.446	74.463	1.00	15.29	O
ATOM	999	CB	GLN	A	129	27.351	59.225	71.350	1.00	14.96	C



[illegible]



ATOM	1080	N	ASP	A	140	32.922	52.993	84.092	1.00	32.99	N
ATOM	1081	CA	ASP	A	140	32.820	51.687	83.454	1.00	32.83	C
ATOM	1082	C	ASP	A	140	33.776	51.547	82.266	1.00	33.33	C
ATOM	1083	O	ASP	A	140	33.593	52.197	81.239	1.00	33.41	O
ATOM	1084	CB	ASP	A	140	31.378	51.480	82.987	1.00	33.15	C
ATOM	1085	CG	ASP	A	140	31.177	50.175	82.256	1.00	32.34	C
ATOM	1086	OD1	ASP	A	140	32.159	49.425	82.094	1.00	31.57	O
ATOM	1087	OD2	ASP	A	140	30.030	49.907	81.845	1.00	30.43	O
ATOM	1088	N	THR	A	141	34.791	50.697	82.410	1.00	33.95	N
ATOM	1089	CA	THR	A	141	35.762	50.475	81.340	1.00	34.59	C
ATOM	1090	C	THR	A	141	35.543	49.105	80.713	1.00	34.71	C
ATOM	1091	O	THR	A	141	36.410	48.578	80.014	1.00	35.59	O
ATOM	1092	CB	THR	A	141	37.228	50.568	81.848	1.00	34.56	C
ATOM	1093	OG1	THR	A	141	37.438	49.628	82.910	1.00	34.99	O
ATOM	1094	CG2	THR	A	141	37.534	51.978	82.337	1.00	34.34	C
ATOM	1095	N	SER	A	142	34.371	48.541	80.977	1.00	34.24	N
ATOM	1096	CA	SER	A	142	33.976	47.243	80.449	1.00	33.68	C
ATOM	1097	C	SER	A	142	34.183	47.168	78.931	1.00	33.65	C
ATOM	1098	O	SER	A	142	34.615	46.140	78.409	1.00	34.02	O
ATOM	1099	CB	SER	A	142	32.504	46.989	80.795	1.00	34.05	C
ATOM	1100	OG	SER	A	142	31.949	45.925	80.040	1.00	39.80	O
ATOM	1101	N	VAL	A	143	33.877	48.259	78.229	1.00	31.28	N
ATOM	1102	CA	VAL	A	143	34.023	48.308	76.773	1.00	29.67	C
ATOM	1103	C	VAL	A	143	35.114	49.291	76.345	1.00	29.42	C
ATOM	1104	O	VAL	A	143	35.093	50.462	76.714	1.00	27.57	O
ATOM	1105	CB	VAL	A	143	32.688	48.716	76.091	1.00	28.07	C
ATOM	1106	CG1	VAL	A	143	32.870	48.781	74.595	1.00	24.46	C
ATOM	1107	CG2	VAL	A	143	31.596	47.727	76.448	1.00	26.32	C
ATOM	1108	N	GLU	A	144	36.057	48.812	75.544	1.00	30.29	N
ATOM	1109	CA	GLU	A	144	37.160	49.646	75.087	1.00	33.01	C
ATOM	1110	C	GLU	A	144	36.715	50.694	74.071	1.00	31.66	C
ATOM	1111	O	GLU	A	144	37.133	51.854	74.143	1.00	32.19	O
ATOM	1112	CB	GLU	A	144	38.265	48.775	74.478	1.00	37.61	C
ATOM	1113	CG	GLU	A	144	37.936	48.238	73.090	1.00	45.13	C
ATOM	1114	CD	GLU	A	144	36.655	47.417	73.058	1.00	48.26	C
ATOM	1115	OE1	GLU	A	144	35.951	47.468	72.021	1.00	48.24	O
ATOM	1116	OE2	GLU	A	144	36.361	46.717	74.058	1.00	49.57	O
ATOM	1117	N	ASN	A	145	35.864	50.289	73.129	1.00	28.27	N
ATOM	1118	CA	ASN	A	145	35.381	51.205	72.095	1.00	25.07	C
ATOM	1119	C	ASN	A	145	33.869	51.109	71.891	1.00	23.65	C
ATOM	1120	O	ASN	A	145	33.381	50.190	71.225	1.00	21.14	O
ATOM	1121	CB	ASN	A	145	36.086	50.913	70.767	1.00	22.52	C
ATOM	1122	CG	ASN	A	145	35.622	51.824	69.641	1.00	23.63	C
ATOM	1123	OD1	ASN	A	145	35.581	51.417	68.475	1.00	25.36	O
ATOM	1124	ND2	ASN	A	145	35.288	53.063	69.976	1.00	20.94	N
ATOM	1125	N	TRP	A	146	33.127	52.051	72.467	1.00	22.81	N
ATOM	1126	CA	TRP	A	146	31.674	52.055	72.307	1.00	22.35	C
ATOM	1127	C	TRP	A	146	31.286	52.424	70.877	1.00	22.17	C
ATOM	1128	O	TRP	A	146	30.288	51.932	70.342	1.00	21.07	O
ATOM	1129	CB	TRP	A	146	31.014	53.037	73.283	1.00	20.48	C
ATOM	1130	CG	TRP	A	146	30.789	52.448	74.632	1.00	20.49	C
ATOM	1131	CD1	TRP	A	146	31.530	52.661	75.761	1.00	21.17	C
ATOM	1132	CD2	TRP	A	146	29.793	51.483	74.981	1.00	20.50	C
ATOM	1133	NE1	TRP	A	146	31.058	51.883	76.789	1.00	19.77	N
ATOM	1134	CE2	TRP	A	146	29.994	51.148	76.337	1.00	20.40	C
ATOM	1135	CE3	TRP	A	146	28.752	50.862	74.277	1.00	19.68	C
ATOM	1136	CZ2	TRP	A	146	29.193	50.218	77.002	1.00	21.00	C
ATOM	1137	CZ3	TRP	A	146	27.961	49.942	74.936	1.00	19.81	C
ATOM	1138	CH2	TRP	A	146	28.185	49.626	76.287	1.00	21.41	C
ATOM	1139	N	LEU	A	147	32.077	53.294	70.260	1.00	20.94	N
ATOM	1140	CA	LEU	A	147	31.797	53.713	68.899	1.00	22.25	C
ATOM	1141	C	LEU	A	147	32.278	52.690	67.883	1.00	21.50	C
ATOM	1142	O	LEU	A	147	33.245	52.919	67.163	1.00	20.68	O
ATOM	1143	CB	LEU	A	147	32.431	55.077	68.623	1.00	23.85	C
ATOM	1144	CG	LEU	A	147	31.622	56.207	69.261	1.00	26.05	C
ATOM	1145	CD1	LEU	A	147	32.400	57.495	69.205	1.00	29.03	C
ATOM	1146	CD2	LEU	A	147	30.292	56.350	68.528	1.00	27.30	C
ATOM	1147	N	ALA	A	148	31.590	51.555	67.841	1.00	21.09	N
ATOM	1148	CA	ALA	A	148	31.922	50.494	66.903	1.00	21.47	C
ATOM	1149	C	ALA	A	148	31.615	50.975	65.483	1.00	21.21	C
ATOM	1150	O	ALA	A	148	30.665	51.726	65.262	1.00	22.86	O
ATOM	1151	CB	ALA	A	148	31.115	49.249	67.223	1.00	19.91	C
ATOM	1152	N	PRO	A	149	32.436	50.570	64.506	1.00	20.97	N
ATOM	1153	CA	PRO	A	149	32.200	50.988	63.124	1.00	19.79	C
ATOM	1154	C	PRO	A	149	30.886	50.421	62.595	1.00	20.07	C
ATOM	1155	O	PRO	A	149	30.502	49.297	62.924	1.00	19.66	O
ATOM	1156	CB	PRO	A	149	33.412	50.431	62.386	1.00	20.62	C
ATOM	1157	CG	PRO	A	149	33.750	49.199	63.181	1.00	20.39	C
ATOM	1158	CD	PRO	A	149	33.631	49.714	64.597	1.00	21.71	C
ATOM	1159	N	ILE	A	150	30.207	51.210	61.771	1.00	19.29	N



ATOM	1160	CA	ILE	A	150	28.936	50.808	61.188	1.00	17.82	C
ATOM	1161	C	ILE	A	150	29.077	50.567	59.689	1.00	16.60	C
ATOM	1162	O	ILE	A	150	29.573	51.424	58.963	1.00	17.00	O
ATOM	1163	CB	ILE	A	150	27.861	51.908	61.396	1.00	18.28	C
ATOM	1164	CG1	ILE	A	150	27.642	52.153	62.890	1.00	17.32	C
ATOM	1165	CG2	ILE	A	150	26.560	51.509	60.712	1.00	16.46	C
ATOM	1166	CD1	ILE	A	150	26.864	53.414	63.191	1.00	17.66	C
ATOM	1167	N	VAL	A	151	28.652	49.390	59.245	1.00	16.88	N
ATOM	1168	CA	VAL	A	151	28.661	49.024	57.834	1.00	16.47	C
ATOM	1169	C	VAL	A	151	27.191	49.080	57.427	1.00	17.39	C
ATOM	1170	O	VAL	A	151	26.380	48.319	57.945	1.00	18.67	O
ATOM	1171	CB	VAL	A	151	29.192	47.585	57.622	1.00	17.52	C
ATOM	1172	CG1	VAL	A	151	28.869	47.106	56.203	1.00	14.98	C
ATOM	1173	CG2	VAL	A	151	30.702	47.554	57.852	1.00	15.78	C
ATOM	1174	N	ALA	A	152	26.846	49.979	56.512	1.00	17.18	N
ATOM	1175	CA	ALA	A	152	25.453	50.131	56.105	1.00	17.81	C
ATOM	1176	C	ALA	A	152	25.111	49.721	54.679	1.00	18.83	C
ATOM	1177	O	ALA	A	152	25.952	49.724	53.778	1.00	18.20	O
ATOM	1178	CB	ALA	A	152	24.998	51.569	56.345	1.00	16.41	C
ATOM	1179	N	ASP	A	153	23.834	49.397	54.504	1.00	18.49	N
ATOM	1180	CA	ASP	A	153	23.265	48.960	53.243	1.00	16.25	C
ATOM	1181	C	ASP	A	153	22.967	50.126	52.290	1.00	16.78	C
ATOM	1182	O	ASP	A	153	22.148	50.992	52.592	1.00	18.26	O
ATOM	1183	CB	ASP	A	153	21.970	48.210	53.538	1.00	15.17	C
ATOM	1184	CG	ASP	A	153	21.521	47.340	52.391	1.00	16.30	C
ATOM	1185	OD1	ASP	A	153	21.908	47.618	51.236	1.00	13.59	O
ATOM	1186	OD2	ASP	A	153	20.768	46.381	52.655	1.00	16.12	O
ATOM	1187	N	GLY	A	154	23.629	50.142	51.141	1.00	16.53	N
ATOM	1188	CA	GLY	A	154	23.386	51.188	50.167	1.00	16.30	C
ATOM	1189	C	GLY	A	154	22.464	50.645	49.090	1.00	16.24	C
ATOM	1190	O	GLY	A	154	22.081	51.350	48.161	1.00	17.40	O
ATOM	1191	N	GLU	A	155	22.109	49.373	49.229	1.00	15.04	N
ATOM	1192	CA	GLU	A	155	21.235	48.689	48.285	1.00	16.98	C
ATOM	1193	C	GLU	A	155	21.734	48.868	46.855	1.00	16.61	C
ATOM	1194	O	GLU	A	155	22.899	48.590	46.567	1.00	17.25	O
ATOM	1195	CB	GLU	A	155	19.790	49.197	48.422	1.00	17.98	C
ATOM	1196	CG	GLU	A	155	19.250	49.112	49.840	1.00	18.73	C
ATOM	1197	CD	GLU	A	155	17.739	49.008	49.904	1.00	23.04	C
ATOM	1198	OE1	GLU	A	155	17.067	49.410	48.933	1.00	26.74	O
ATOM	1199	OE2	GLU	A	155	17.218	48.535	50.937	1.00	22.27	O
ATOM	1200	N	ALA	A	156	20.861	49.328	45.963	1.00	16.78	N
ATOM	1201	CA	ALA	A	156	21.248	49.531	44.571	1.00	18.87	C
ATOM	1202	C	ALA	A	156	21.374	51.017	44.214	1.00	20.00	C
ATOM	1203	O	ALA	A	156	21.359	51.384	43.037	1.00	20.08	O
ATOM	1204	CB	ALA	A	156	20.247	48.842	43.639	1.00	20.27	C
ATOM	1205	N	GLY	A	157	21.490	51.867	45.233	1.00	18.44	N
ATOM	1206	CA	GLY	A	157	21.652	53.288	44.987	1.00	18.65	C
ATOM	1207	C	GLY	A	157	20.407	54.141	44.839	1.00	18.57	C
ATOM	1208	O	GLY	A	157	20.506	55.374	44.845	1.00	18.10	O
ATOM	1209	N	PHE	A	158	19.244	53.508	44.713	1.00	17.35	N
ATOM	1210	CA	PHE	A	158	17.984	54.241	44.561	1.00	17.32	C
ATOM	1211	C	PHE	A	158	17.977	55.122	43.309	1.00	18.61	C
ATOM	1212	O	PHE	A	158	17.432	56.231	43.318	1.00	18.50	O
ATOM	1213	CB	PHE	A	158	17.726	55.111	45.791	1.00	15.53	C
ATOM	1214	CG	PHE	A	158	17.397	54.324	47.031	1.00	18.63	C
ATOM	1215	CD1	PHE	A	158	16.085	53.950	47.308	1.00	14.77	C
ATOM	1216	CD2	PHE	A	158	18.404	53.938	47.914	1.00	15.78	C
ATOM	1217	CE1	PHE	A	158	15.784	53.208	48.444	1.00	16.83	C
ATOM	1218	CE2	PHE	A	158	18.111	53.196	49.050	1.00	14.04	C
ATOM	1219	CZ	PHE	A	158	16.807	52.831	49.318	1.00	15.59	C
ATOM	1220	N	GLY	A	159	18.579	54.632	42.234	1.00	17.68	N
ATOM	1221	CA	GLY	A	159	18.607	55.417	41.017	1.00	19.52	C
ATOM	1222	C	GLY	A	159	19.930	55.350	40.284	1.00	19.34	C
ATOM	1223	O	GLY	A	159	20.551	54.289	40.197	1.00	19.92	O
ATOM	1224	N	GLY	A	160	20.356	56.489	39.752	1.00	18.46	N
ATOM	1225	CA	GLY	A	160	21.599	56.539	39.010	1.00	18.95	C
ATOM	1226	C	GLY	A	160	22.804	56.805	39.886	1.00	20.83	C
ATOM	1227	O	GLY	A	160	22.739	56.684	41.114	1.00	20.81	O
ATOM	1228	N	ALA	A	161	23.910	57.166	39.241	1.00	19.83	N
ATOM	1229	CA	ALA	A	161	25.150	57.454	39.934	1.00	19.53	C
ATOM	1230	C	ALA	A	161	25.001	58.643	40.884	1.00	18.97	C
ATOM	1231	O	ALA	A	161	25.667	58.700	41.915	1.00	18.09	O
ATOM	1232	CB	ALA	A	161	26.258	57.719	38.917	1.00	19.89	C
ATOM	1233	N	LEU	A	162	24.133	59.589	40.535	1.00	17.83	N
ATOM	1234	CA	LEU	A	162	23.914	60.759	41.381	1.00	19.31	C
ATOM	1235	C	LEU	A	162	23.139	60.381	42.642	1.00	19.84	C
ATOM	1236	O	LEU	A	162	23.389	60.928	43.713	1.00	20.26	O
ATOM	1237	CB	LEU	A	162	23.172	61.844	40.606	1.00	18.25	C
ATOM	1238	CG	LEU	A	162	23.956	62.334	39.387	1.00	20.92	C
ATOM	1239	CD1	LEU	A	162	23.134	63.344	38.619	1.00	21.46	C



ATOM	1240	CD2	LEU	A	162	25.285	62.947	39.842	1.00	21.59	C
ATOM	1241	N	ASN	A	163	22.203	59.442	42.519	1.00	20.21	N
ATOM	1242	CA	ASN	A	163	21.437	58.997	43.680	1.00	18.93	C
ATOM	1243	C	ASN	A	163	22.404	58.244	44.592	1.00	18.10	C
ATOM	1244	O	ASN	A	163	22.330	58.346	45.816	1.00	16.46	O
ATOM	1245	CB	ASN	A	163	20.298	58.076	43.251	1.00	17.25	C
ATOM	1246	CG	ASN	A	163	19.266	58.784	42.387	1.00	18.52	C
ATOM	1247	OD1	ASN	A	163	18.410	59.520	42.883	1.00	20.39	O
ATOM	1248	ND2	ASN	A	163	19.345	58.564	41.091	1.00	14.76	N
ATOM	1249	N	VAL	A	164	23.309	57.485	43.978	1.00	17.95	N
ATOM	1250	CA	VAL	A	164	24.315	56.731	44.718	1.00	17.59	C
ATOM	1251	C	VAL	A	164	25.159	57.731	45.492	1.00	16.69	C
ATOM	1252	O	VAL	A	164	25.393	57.581	46.686	1.00	17.23	O
ATOM	1253	CB	VAL	A	164	25.257	55.945	43.755	1.00	17.16	C
ATOM	1254	CG1	VAL	A	164	26.455	55.384	44.516	1.00	16.69	C
ATOM	1255	CG2	VAL	A	164	24.498	54.828	43.089	1.00	18.47	C
ATOM	1256	N	TYR	A	165	25.606	58.763	44.788	1.00	17.38	N
ATOM	1257	CA	TYR	A	165	26.447	59.789	45.381	1.00	17.37	C
ATOM	1258	C	TYR	A	165	25.819	60.435	46.612	1.00	17.13	C
ATOM	1259	O	TYR	A	165	26.472	60.579	47.644	1.00	15.92	O
ATOM	1260	CB	TYR	A	165	26.786	60.855	44.336	1.00	17.23	C
ATOM	1261	CG	TYR	A	165	27.719	61.933	44.848	1.00	17.77	C
ATOM	1262	CD1	TYR	A	165	27.240	62.986	45.618	1.00	15.76	C
ATOM	1263	CD2	TYR	A	165	29.084	61.888	44.572	1.00	18.32	C
ATOM	1264	CE1	TYR	A	165	28.090	63.971	46.104	1.00	18.94	C
ATOM	1265	CE2	TYR	A	165	29.950	62.874	45.049	1.00	19.88	C
ATOM	1266	CZ	TYR	A	165	29.445	63.911	45.815	1.00	19.82	C
ATOM	1267	OH	TYR	A	165	30.287	64.884	46.298	1.00	20.70	O
ATOM	1268	N	GLU	A	166	24.552	60.821	46.506	1.00	17.49	N
ATOM	1269	CA	GLU	A	166	23.869	61.453	47.623	1.00	16.29	C
ATOM	1270	C	GLU	A	166	23.669	60.497	48.804	1.00	17.31	C
ATOM	1271	O	GLU	A	166	23.758	60.909	49.965	1.00	17.87	O
ATOM	1272	CB	GLU	A	166	22.523	62.014	47.165	1.00	17.74	C
ATOM	1273	CG	GLU	A	166	22.627	63.288	46.352	1.00	18.26	C
ATOM	1274	CD	GLU	A	166	23.414	64.364	47.078	1.00	21.85	C
ATOM	1275	OE1	GLU	A	166	22.992	64.781	48.176	1.00	17.79	O
ATOM	1276	OE2	GLU	A	166	24.465	64.786	46.552	1.00	21.68	O
ATOM	1277	N	LEU	A	167	23.399	59.226	48.519	1.00	15.73	N
ATOM	1278	CA	LEU	A	167	23.201	58.264	49.595	1.00	15.56	C
ATOM	1279	C	LEU	A	167	24.506	58.090	50.368	1.00	15.32	C
ATOM	1280	O	LEU	A</							



ATOM	1320	CB	ILE	A	172	29.890	60.195	54.682	1.00	17.01	C
ATOM	1321	CG1	ILE	A	172	30.438	59.037	53.843	1.00	17.28	C
ATOM	1322	CG2	ILE	A	172	31.022	60.998	55.289	1.00	14.88	C
ATOM	1323	CD1	ILE	A	172	31.300	59.473	52.678	1.00	15.10	C
ATOM	1324	N	ALA	A	173	27.774	61.650	56.470	1.00	18.09	N
ATOM	1325	CA	ALA	A	173	27.426	62.728	57.385	1.00	18.37	C
ATOM	1326	C	ALA	A	173	26.848	62.165	58.680	1.00	19.03	C
ATOM	1327	O	ALA	A	173	26.991	62.771	59.742	1.00	19.27	O
ATOM	1328	CB	ALA	A	173	26.434	63.676	56.727	1.00	18.69	C
ATOM	1329	N	ALA	A	174	26.211	60.999	58.587	1.00	19.16	N
ATOM	1330	CA	ALA	A	174	25.611	60.350	59.749	1.00	18.92	C
ATOM	1331	C	ALA	A	174	26.647	59.542	60.533	1.00	19.32	C
ATOM	1332	O	ALA	A	174	26.355	59.045	61.620	1.00	18.94	O
ATOM	1333	CB	ALA	A	174	24.468	59.440	59.309	1.00	17.25	C
ATOM	1334	N	GLY	A	175	27.844	59.396	59.970	1.00	18.78	N
ATOM	1335	CA	GLY	A	175	28.899	58.661	60.652	1.00	18.16	C
ATOM	1336	C	GLY	A	175	29.121	57.210	60.258	1.00	18.64	C
ATOM	1337	O	GLY	A	175	29.645	56.429	61.053	1.00	19.51	O
ATOM	1338	N	VAL	A	176	28.742	56.829	59.045	1.00	18.23	N
ATOM	1339	CA	VAL	A	176	28.942	55.442	58.622	1.00	17.11	C
ATOM	1340	C	VAL	A	176	30.435	55.153	58.456	1.00	18.09	C
ATOM	1341	O	VAL	A	176	31.221	56.059	58.173	1.00	15.27	O
ATOM	1342	CB	VAL	A	176	28.250	55.150	57.272	1.00	17.03	C
ATOM	1343	CG1	VAL	A	176	29.154	55.572	56.112	1.00	11.35	C
ATOM	1344	CG2	VAL	A	176	27.902	53.676	57.180	1.00	16.97	C
ATOM	1345	N	ALA	A	177	30.810	53.887	58.622	1.00	18.65	N
ATOM	1346	CA	ALA	A	177	32.202	53.466	58.485	1.00	19.41	C
ATOM	1347	C	ALA	A	177	32.406	52.758	57.144	1.00	19.41	C
ATOM	1348	O	ALA	A	177	33.473	52.856	56.533	1.00	19.65	O
ATOM	1349	CB	ALA	A	177	32.585	52.532	59.634	1.00	16.84	C
ATOM	1350	N	GLY	A	178	31.379	52.043	56.701	1.00	17.88	N
ATOM	1351	CA	GLY	A	178	31.453	51.328	55.441	1.00	17.66	C
ATOM	1352	C	GLY	A	178	30.074	51.203	54.823	1.00	17.80	C
ATOM	1353	O	GLY	A	178	29.077	51.239	55.538	1.00	17.88	O
ATOM	1354	N	SER	A	179	30.010	51.062	53.501	1.00	17.28	N
ATOM	1355	CA	SER	A	179	28.729	50.929	52.808	1.00	19.33	C
ATOM	1356	C	SER	A	179	28.839	49.944	51.641	1.00	20.06	C
ATOM	1357	O	SER	A	179	29.864	49.899	50.963	1.00	22.41	O
ATOM	1358	CB	SER	A	179	28.257	52.300	52.295	1.00	17.94	C
ATOM	1359	OG	SER	A	179	29.205	52.895	51.416	1.00	18.86	O
ATOM	1360	N	HIS	A	180	27.795	49.148	51.414	1.00	20.35	N
ATOM	1361	CA	HIS	A	180	27.823	48.188	50.314	1.00	19.96	C
ATOM	1362	C	HIS	A	180	26.813	48.527	49.224	1.00	20.73	C
ATOM	1363	O	HIS	A	180	25.746	49.095	49.490	1.00	20.86	O
ATOM	1364	CB	HIS	A	180	27.611	46.750	50.817	1.00	18.37	C
ATOM	1365	CG	HIS	A	180	26.270	46.493	51.428	1.00	16.71	C
ATOM	1366	ND1	HIS	A	180	26.098	46.290	52.780	1.00	17.78	N
ATOM	1367	CD2	HIS	A	180	25.053	46.308	50.865	1.00	16.59	C
ATOM	1368	CE1	HIS	A	180	24.837	45.984	53.022	1.00	17.50	C
ATOM	1369	NE2	HIS	A	180	24.180	45.988	51.876	1.00	18.61	N
ATOM	1370	N	TRP	A	181	27.169	48.171	47.993	1.00	19.32	N
ATOM	1371	CA	TRP	A	181	26.349	48.465	46.832	1.00	18.88	C
ATOM	1372	C	TRP	A	181	26.273	47.240	45.934	1.00	19.27	C
ATOM	1373	O	TRP	A	181	27.287	46.596	45.658	1.00	19.10	O
ATOM	1374	CB	TRP	A	181	26.951	49.656	46.088	1.00	16.55	C
ATOM	1375	CG	TRP	A	181	27.358	50.742	47.022	1.00	18.15	C
ATOM	1376	CD1	TRP	A	181	28.462	50.753	47.834	1.00	18.45	C
ATOM	1377	CD2	TRP	A	181	26.619	51.933	47.335	1.00	18.90	C
ATOM	1378	NE1	TRP	A	181	28.451	51.871	48.634	1.00	20.18	N
ATOM	1379	CE2	TRP	A	181	27.333	52.613	48.350	1.00	18.38	C
ATOM	1380	CE3	TRP	A	181	25.422	52.489	46.859	1.00	16.17	C
ATOM	1381	CZ2	TRP	A	181	26.888	53.823	48.898	1.00	17.49	C
ATOM	1382	CZ3	TRP	A	181	24.977	53.693	47.404	1.00	14.12	C
ATOM	1383	CH2	TRP	A	181	25.710	54.347	48.413	1.00	17.68	C
ATOM	1384	N	GLU	A	182	25.063	46.936	45.475	1.00	18.04	N
ATOM	1385	CA	GLU	A	182	24.810	45.760	44.652	1.00	17.12	C
ATOM	1386	C	GLU	A	182	24.548	46.080	43.193	1.00	18.47	C
ATOM	1387	O	GLU	A	182	24.053	47.157	42.859	1.00	17.30	O
ATOM	1388	CB	GLU	A	182	23.620	44.997	45.238	1.00	18.01	C
ATOM	1389	CG	GLU	A	182	22.375	45.864	45.351	1.00	17.04	C
ATOM	1390	CD	GLU	A	182	21.455	45.456	46.478	1.00	19.06	C
ATOM	1391	OE1	GLU	A	182	21.957	45.150	47.587	1.00	18.40	O
ATOM	1392	OE2	GLU	A	182	20.222	45.467	46.260	1.00	19.60	O
ATOM	1393	N	ASP	A	183	24.863	45.121	42.328	1.00	20.35	N
ATOM	1394	CA	ASP	A	183	24.681	45.299	40.899	1.00	20.51	C
ATOM	1395	C	ASP	A	183	23.290	44.924	40.397	1.00	21.15	C
ATOM	1396	O	ASP	A	183	23.150	44.219	39.404	1.00	23.69	O
ATOM	1397	CB	ASP	A	183	25.761	44.530	40.113	1.00	19.20	C
ATOM	1398	CG	ASP	A	183	25.874	43.063	40.516	1.00	21.76	C
ATOM	1399	OD1	ASP	A	183	25.019	42.555	41.278	1.00	22.81	O



ATOM	1400	OD2	ASP	A	183	26.831	42.405	40.051	1.00	20.83	O
ATOM	1401	N	GLN	A	184	22.264	45.416	41.082	1.00	21.47	N
ATOM	1402	CA	GLN	A	184	20.880	45.163	40.691	1.00	21.52	C
ATOM	1403	C	GLN	A	184	20.256	46.438	40.146	1.00	23.01	C
ATOM	1404	O	GLN	A	184	20.726	47.536	40.433	1.00	22.75	O
ATOM	1405	CB	GLN	A	184	20.040	44.722	41.884	1.00	19.98	C
ATOM	1406	CG	GLN	A	184	20.300	43.329	42.393	1.00	20.56	C
ATOM	1407	CD	GLN	A	184	19.315	42.944	43.480	1.00	21.60	C
ATOM	1408	OE1	GLN	A	184	18.096	42.955	43.264	1.00	18.74	O
ATOM	1409	NE2	GLN	A	184	19.834	42.607	44.655	1.00	17.81	N
ATOM	1410	N	LEU	A	185	19.190	46.281	39.368	1.00	23.95	N
ATOM	1411	CA	LEU	A	185	18.468	47.419	38.815	1.00	24.82	C
ATOM	1412	C	LEU	A	185	17.680	48.007	39.985	1.00	24.85	C
ATOM	1413	O	LEU	A	185	16.847	47.331	40.582	1.00	25.46	O
ATOM	1414	CB	LEU	A	185	17.508	46.957	37.713	1.00	24.59	C
ATOM	1415	CG	LEU	A	185	16.521	48.016	37.215	1.00	25.82	C
ATOM	1416	CD1	LEU	A	185	17.293	49.174	36.606	1.00	22.55	C
ATOM	1417	CD2	LEU	A	185	15.561	47.400	36.199	1.00	24.10	C
ATOM	1418	N	ALA	A	186	17.957	49.263	40.308	1.00	24.96	N
ATOM	1419	CA	ALA	A	186	17.311	49.938	41.422	1.00	24.75	C
ATOM	1420	C	ALA	A	186	15.792	49.813	41.428	1.00	24.46	C
ATOM	1421	O	ALA	A	186	15.204	49.452	42.447	1.00	23.04	O
ATOM	1422	CB	ALA	A	186	17.716	51.412	41.435	1.00	25.35	C
ATOM	1423	N	SER	A	187	15.167	50.101	40.289	1.00	22.34	N
ATOM	1424	CA	SER	A	187	13.715	50.038	40.175	1.00	22.88	C
ATOM	1425	C	SER	A	187	13.096	48.653	40.402	1.00	22.55	C
ATOM	1426	O	SER	A	187	11.903	48.548	40.676	1.00	22.95	O
ATOM	1427	CB	SER	A	187	13.271	50.599	38.813	1.00	22.56	C
ATOM	1428	OG	SER	A	187	13.851	49.891	37.734	1.00	21.74	O
ATOM	1429	N	GLU	A	188	13.900	47.598	40.303	1.00	22.12	N
ATOM	1430	CA	GLU	A	188	13.400	46.238	40.508	1.00	22.60	C
ATOM	1431	C	GLU	A	188	14.177	45.529	41.616	1.00	24.49	C
ATOM	1432	O	GLU	A	188	14.129	44.299	41.739	1.00	24.48	O
ATOM	1433	CB	GLU	A	188	13.524	45.423	39.214	1.00	22.83	C
ATOM	1434	CG	GLU	A	188	12.667	45.918	38.064	1.00	22.29	C
ATOM	1435	CD	GLU	A	188	11.193	45.971	38.419	1.00	24.78	C
ATOM	1436	OE1	GLU	A	188	10.716	45.054	39.127	1.00	25.35	O
ATOM	1437	OE2	GLU	A	188	10.511	46.921	37.984	1.00	24.61	O
ATOM	1438	N	LYS	A	189	14.892	46.311	42.420	1.00	24.63	N
ATOM	1439	CA	LYS	A	189	15.702	45.770	43.502	1.00	24.06	C
ATOM	1440	C	LYS	A	189	14.986	44.686	44.288	1.00	24.20	C
ATOM	1441	O	LYS	A	189	13.826	44.835	44.666	1.00	24.62	O
ATOM	1442	CB	LYS	A	189	16.149	46.895	44.444	1.00	23.76	C
ATOM	1443	CG	LYS	A	189	17.112	46.468	45.553	1.00	22.31	C
ATOM	1444	CD	LYS	A	189	16.376	45.897	46.754	1.00	23.38	C
ATOM	1445	CE	LYS	A	189	17.278	45.806	47.984	1.00	24.38	C
ATOM	1446	NZ	LYS	A	189	18.366	44.802	47.819	1.00	23.96	N
ATOM	1447	N	LYS	A	190	15.691	43.589	44.521	1.00	24.64	N
ATOM	1448	CA	LYS	A	190	15.146	42.474	45.269	1.00	26.35	C
ATOM	1449	C	LYS	A	190	16.102	42.082	46.370	1.00	27.42	C
ATOM	1450	O	LYS	A	190	17.306	42.332	46.294	1.00	27.90	O
ATOM	1451	CB	LYS	A	190	14.937	41.255	44.372	1.00	26.91	C
ATOM	1452	CG	LYS	A	190	13.876	41.407	43.309	1.00	29.42	C
ATOM	1453	CD	LYS	A	190	12.512	41.682	43.908	1.00	26.61	C
ATOM	1454	CE	LYS	A	190	11.463	41.648	42.820	1.00	29.48	C
ATOM	1455	NZ	LYS	A	190	11.806	42.553	41.691	1.00	29.43	N
ATOM	1456	N	SER	A	191	15.554	41.461	47.403	1.00	28.62	N
ATOM	1457	CA	SER	A	191	16.365	40.978	48.503	1.00	27.51	C
ATOM	1458	C	SER	A	191	17.265	39.926	47.855	1.00	25.78	C
ATOM	1459	O	SER	A	191	16.864	39.288	46.883	1.00	25.68	O
ATOM	1460	CB	SER	A	191	15.464	40.330	49.547	1.00	29.26	C
ATOM	1461	OG	SER	A	191	16.201	39.945	50.683	1.00	34.01	O
ATOM	1462	N	GLY	A	192	18.470	39.750	48.380	1.00	23.33	N
ATOM	1463	CA	GLY	A	192	19.389	38.780	47.814	1.00	23.31	C
ATOM	1464	C	GLY	A	192	18.825	37.376	47.687	1.00	24.25	C
ATOM	1465	O	GLY	A	192	19.222	36.619	46.793	1.00	24.19	O
ATOM	1466	N	HIS	A	193	17.887	37.027	48.562	1.00	23.14	N
ATOM	1467	CA	HIS	A	193	17.298	35.697	48.543	1.00	23.67	C
ATOM	1468	C	HIS	A	193	15.840	35.628	48.087	1.00	23.79	C
ATOM	1469	O	HIS	A	193	15.113	34.687	48.414	1.00	23.79	O
ATOM	1470	CB	HIS	A	193	17.496	35.050	49.915	1.00	22.55	C
ATOM	1471	CG	HIS	A	193	18.928	35.047	50.348	1.00	25.26	C
ATOM	1472	ND1	HIS	A	193	19.448	35.990	51.210	1.00	23.91	N
ATOM	1473	CD2	HIS	A	193	19.981	34.306	49.924	1.00	23.73	C
ATOM	1474	CE1	HIS	A	193	20.757	35.834	51.293	1.00	24.73	C
ATOM	1475	NE2	HIS	A	193	21.105	34.819	50.521	1.00	23.74	N
ATOM	1476	N	LEU	A	194	15.426	36.637	47.326	1.00	23.20	N
ATOM	1477	CA	LEU	A	194	14.086	36.690	46.754	1.00	23.08	C
ATOM	1478	C	LEU	A	194	14.300	36.504	45.258	1.00	24.47	C
ATOM	1479	O	LEU	A	194	15.396	36.762	44.751	1.00	23.97	O



ATOM	1480	CB	LEU	A	194	13.423	38.045	47.009	1.00	21.16	C
ATOM	1481	CG	LEU	A	194	12.894	38.346	48.420	1.00	24.21	C
ATOM	1482	CD1	LEU	A	194	12.279	39.752	48.455	1.00	21.37	C
ATOM	1483	CD2	LEU	A	194	11.864	37.301	48.818	1.00	18.98	C
ATOM	1484	N	GLY	A	195	13.269	36.056	44.550	1.00	25.78	N
ATOM	1485	CA	GLY	A	195	13.403	35.856	43.116	1.00	26.90	C
ATOM	1486	C	GLY	A	195	13.125	37.123	42.330	1.00	27.40	C
ATOM	1487	O	GLY	A	195	12.874	38.179	42.916	1.00	28.81	O
ATOM	1488	N	GLY	A	196	13.188	37.020	41.006	1.00	26.59	N
ATOM	1489	CA	GLY	A	196	12.918	38.161	40.148	1.00	25.51	C
ATOM	1490	C	GLY	A	196	13.969	39.251	40.139	1.00	25.09	C
ATOM	1491	O	GLY	A	196	13.660	40.409	39.857	1.00	25.50	O
ATOM	1492	N	LYS	A	197	15.211	38.891	40.440	1.00	24.06	N
ATOM	1493	CA	LYS	A	197	16.297	39.863	40.461	1.00	22.44	C
ATOM	1494	C	LYS	A	197	16.782	40.198	39.060	1.00	21.69	C
ATOM	1495	O	LYS	A	197	16.874	39.318	38.198	1.00	22.54	O
ATOM	1496	CB	LYS	A	197	17.474	39.341	41.296	1.00	20.26	C
ATOM	1497	CG	LYS	A	197	17.107	39.056	42.748	1.00	22.53	C
ATOM	1498	CD	LYS	A	197	18.320	38.891	43.665	1.00	20.81	C
ATOM	1499	CE	LYS	A	197	19.198	37.713	43.281	1.00	18.60	C
ATOM	1500	NZ	LYS	A	197	20.236	37.484	44.324	1.00	18.50	N
ATOM	1501	N	VAL	A	198	17.090	41.476	38.844	1.00	20.25	N
ATOM	1502	CA	VAL	A	198	17.589	41.955	37.561	1.00	18.57	C
ATOM	1503	C	VAL	A	198	18.948	42.622	37.746	1.00	19.78	C
ATOM	1504	O	VAL	A	198	19.083	43.577	38.519	1.00	19.62	O
ATOM	1505	CB	VAL	A	198	16.640	42.999	36.925	1.00	18.76	C
ATOM	1506	CG1	VAL	A	198	17.182	43.410	35.550	1.00	16.43	C
ATOM	1507	CG2	VAL	A	198	15.225	42.436	36.811	1.00	15.25	C
ATOM	1508	N	LEU	A	199	19.955	42.121	37.037	1.00	19.69	N
ATOM	1509	CA	LEU	A	199	21.296	42.688	37.124	1.00	19.61	C
ATOM	1510	C	LEU	A	199	21.434	43.862	36.161	1.00	20.09	C
ATOM	1511	O	LEU	A	199	20.667	43.992	35.208	1.00	20.23	O
ATOM	1512	CB	LEU	A	199	22.351	41.644	36.752	1.00	18.69	C
ATOM	1513	CG	LEU	A	199	22.457	40.330	37.529	1.00	19.08	C
ATOM	1514	CD1	LEU	A	199	23.484	39.439	36.840	1.00	16.57	C
ATOM	1515	CD2	LEU	A	199	22.847	40.599	38.974	1.00	16.79	C
ATOM	1516	N	ILE	A	200	22.406	44.724	36.431	1.00	20.46	N
ATOM	1517	CA	ILE	A	200	22.696	45.850	35.557	1.00	20.97	C
ATOM	1518	C	ILE	A	200	24.067	45.535	34.951	1.00	21.10	C
ATOM	1519	O	ILE	A	200	24.794	44.678	35.465	1.00	20.26	O
ATOM	1520	CB	ILE	A	200	22.709	47.200	36.335	1.00	21.70	C
ATOM	1521	CG1	ILE	A	200	23.388	47.041	37.698	1.00	21.67	C
ATOM	1522	CG2	ILE	A	200	21.285	47.702	36.514	1.00	20.09	C
ATOM	1523	CD1	ILE	A	200	24.886	47.145	37.651	1.00	26.84	C
ATOM	1524	N	PRO	A	201	24.427	46.184	33.832	1.00	21.78	N
ATOM	1525	CA	PRO	A	201	25.736	45.901	33.223	1.00	21.85	C
ATOM	1526	C	PRO	A	201	26.911	46.037	34.197	1.00	21.15	C
ATOM	1527	O	PRO	A	201	26.880	46.857	35.117	1.00	21.65	O
ATOM	1528	CB	PRO	A	201	25.810	46.911	32.080	1.00	19.98	C
ATOM	1529	CG	PRO	A	201	24.375	47.046	31.674	1.00	20.46	C
ATOM	1530	CD	PRO	A	201	23.653	47.127	33.005	1.00	20.32	C
ATOM	1531	N	THR	A	202	27.944	45.227	33.989	1.00	21.05	N
ATOM	1532	CA	THR	A	202	29.131	45.257	34.840	1.00	20.79	C
ATOM	1533	C	THR	A	202	29.712	46.669	34.957	1.00	22.27	C
ATOM	1534	O	THR	A	202	30.083	47.114	36.048	1.00	22.39	O
ATOM	1535	CB	THR	A	202	30.225	44.306	34.293	1.00	20.77	C
ATOM	1536	OG1	THR	A	202	29.821	42.944	34.495	1.00	19.64	O
ATOM	1537	CG2	THR	A	202	31.561	44.553	34.991	1.00	19.95	C
ATOM	1538	N	GLN	A	203	29.783	47.375	33.834	1.00	21.88	N
ATOM	1539	CA	GLN	A	203	30.332	48.719	33.837	1.00	23.41	C
ATOM	1540	C	GLN	A	203	29.441	49.675	34.611	1.00	24.47	C
ATOM	1541	O	GLN	A	203	29.926	50.646	35.203	1.00	24.29	O
ATOM	1542	CB	GLN	A	203	30.520	49.222	32.406	1.00	23.95	C
ATOM	1543	CG	GLN	A	203	31.228	50.576	32.293	1.00	26.83	C
ATOM	1544	CD	GLN	A	203	32.620	50.587	32.922	1.00	27.50	C
ATOM	1545	OE1	GLN	A	203	33.382	49.628	32.797	1.00	28.19	O
ATOM	1546	NE2	GLN	A	203	32.957	51.685	33.591	1.00	26.34	N
ATOM	1547	N	GLN	A	204	28.139	49.404	34.627	1.00	23.24	N
ATOM	1548	CA	GLN	A	204	27.238	50.290	35.342	1.00	21.36	C
ATOM	1549	C	GLN	A	204	27.511	50.206	36.833	1.00	20.54	C
ATOM	1550	O	GLN	A	204	27.465	51.214	37.535	1.00	20.08	O
ATOM	1551	CB	GLN	A	204	25.773	49.949	35.057	1.00	21.83	C
ATOM	1552	CG	GLN	A	204	24.811	51.056	35.481	1.00	21.76	C
ATOM	1553	CD	GLN	A	204	23.378	50.794	35.052	1.00	22.45	C
ATOM	1554	OE1	GLN	A	204	23.121	50.387	33.917	1.00	21.80	O
ATOM	1555	NE2	GLN	A	204	22.436	51.042	35.953	1.00	22.01	N
ATOM	1556	N	HIS	A	205	27.809	49.010	37.329	1.00	20.48	N
ATOM	1557	CA	HIS	A	205	28.082	48.908	38.748	1.00	20.78	C
ATOM	1558	C	HIS	A	205	29.432	49.515	39.094	1.00	20.71	C
ATOM	1559	O	HIS	A	205	29.646	49.955	40.223	1.00	20.18	O



ATOM	1560	CB	HIS	A	205	28.037	47.471	39.244	1.00	20.81	C
ATOM	1561	CG	HIS	A	205	27.848	47.379	40.723	1.00	19.47	C
ATOM	1562	ND1	HIS	A	205	28.540	46.488	41.513	1.00	20.99	N
ATOM	1563	CD2	HIS	A	205	27.054	48.089	41.559	1.00	17.02	C
ATOM	1564	CE1	HIS	A	205	28.181	46.654	42.774	1.00	21.41	C
ATOM	1565	NE2	HIS	A	205	27.281	47.620	42.829	1.00	19.64	N
ATOM	1566	N	ILE	A	206	30.345	49.534	38.126	1.00	21.80	N
ATOM	1567	CA	ILE	A	206	31.652	50.136	38.350	1.00	20.93	C
ATOM	1568	C	ILE	A	206	31.422	51.644	38.476	1.00	21.29	C
ATOM	1569	O	ILE	A	206	32.085	52.317	39.267	1.00	22.65	O
ATOM	1570	CB	ILE	A	206	32.636	49.819	37.185	1.00	21.17	C
ATOM	1571	CG1	ILE	A	206	33.168	48.387	37.329	1.00	20.80	C
ATOM	1572	CG2	ILE	A	206	33.807	50.799	37.186	1.00	20.11	C
ATOM	1573	CD1	ILE	A	206	34.004	47.913	36.137	1.00	22.99	C
ATOM	1574	N	ARG	A	207	30.478	52.181	37.707	1.00	20.67	N
ATOM	1575	CA	ARG	A	207	30.188	53.605	37.824	1.00	22.03	C
ATOM	1576	C	ARG	A	207	29.643	53.859	39.230	1.00	20.00	C
ATOM	1577	O	ARG	A	207	29.941	54.885	39.843	1.00	18.98	O
ATOM	1578	CB	ARG	A	207	29.167	54.065	36.779	1.00	24.31	C
ATOM	1579	CG	ARG	A	207	29.763	54.316	35.395	1.00	29.77	C
ATOM	1580	CD	ARG	A	207	28.840	55.190	34.534	1.00	33.71	C
ATOM	1581	NE	ARG	A	207	27.619	54.501	34.114	1.00	35.68	N
ATOM	1582	CZ	ARG	A	207	27.567	53.595	33.141	1.00	36.11	C
ATOM	1583	NH1	ARG	A	207	28.666	53.265	32.480	1.00	36.88	N
ATOM	1584	NH2	ARG	A	207	26.418	53.017	32.829	1.00	37.10	N
ATOM	1585	N	THR	A	208	28.856	52.917	39.741	1.00	15.75	N
ATOM	1586	CA	THR	A	208	28.304	53.048	41.087	1.00	18.04	C
ATOM	1587	C	THR	A	208	29.412	53.052	42.143	1.00	17.64	C
ATOM	1588	O	THR	A	208	29.460	53.933	42.997	1.00	19.13	O
ATOM	1589	CB	THR	A	208	27.301	51.910	41.394	1.00	17.49	C
ATOM	1590	OG1	THR	A	208	26.048	52.198	40.757	1.00	18.31	O
ATOM	1591	CG2	THR	A	208	27.090	51.757	42.891	1.00	16.08	C
ATOM	1592	N	LEU	A	209	30.308	52.075	42.083	1.00	18.21	N
ATOM	1593	CA	LEU	A	209	31.400	52.013	43.047	1.00	18.30	C
ATOM	1594	C	LEU	A	209	32.266	53.266	42.941	1.00	18.72	C
ATOM	1595	O	LEU	A	209	32.705	53.809	43.951	1.00	20.13	O
ATOM	1596	CB	LEU	A	209	32.236	50.759	42.808	1.00	16.73	C
ATOM	1597	CG	LEU	A	209	31.437	49.462	42.969	1.00	15.15	C
ATOM	1598	CD1	LEU	A	209	32.254	48.275	42.497	1.00	16.06	C
ATOM	1599	CD2	LEU	A	209	31.029	49.304	44.427	1.00	15.69	C
ATOM	1600	N	THR	A	210	32.486	53.732	41.714	1.00	19.92	N
ATOM	1601	CA	THR	A	210	33.284	54.927	41.469	1.00	19.39	C
ATOM	1602	C	THR	A	210	32.594	56.123	42.126	1.00	21.00	C
ATOM	1603	O	THR	A	210	33.238	56.969	42.751	1.00	23.24	O
ATOM	1604	CB	THR	A	210	33.423	55.193	39.946	1.00	18.72	C
ATOM	1605	OG1	THR	A	210	34.166	54.132	39.338	1.00	18.32	O
ATOM	1606	CG2	THR	A	210	34.129	56.508	39.685	1.00	18.58	C
ATOM	1607	N	SER	A	211	31.276	56.183	41.981	1.00	20.29	N
ATOM	1608	CA	SER	A	211	30.488	57.267	42.556	1.00	20.26	C
ATOM	1609	C	SER	A	211	30.531	57.213	44.089	1.00	20.32	C
ATOM	1610	O	SER	A	211	30.616	58.251	44.753	1.00	20.05	O
ATOM	1611	CB	SER	A	211	29.041	57.176	42.063	1.00	18.88	C
ATOM	1612	OG	SER	A	211	28.279	58.277	42.514	1.00	20.24	O
ATOM	1613	N	ALA	A	212	30.476	56.007	44.649	1.00	17.95	N
ATOM	1614	CA	ALA	A	212	30.520	55.861	46.100	1.00	20.55	C
ATOM	1615	C	ALA	A	212	31.872	56.341	46.607	1.00	20.63	C
ATOM	1616	O	ALA	A	212	31.960	56.957	47.667	1.00	21.23	O
ATOM	1617	CB	ALA	A	212	30.305	54.407	46.506	1.00	18.18	C
ATOM	1618	N	ARG	A	213	32.923	56.053	45.847	1.00	20.82	N
ATOM	1619	CA	ARG	A	213	34.264	56.469	46.238	1.00	20.46	C
ATOM	1620	C	ARG	A	213	34.406	57.982	46.146	1.00	19.37	C
ATOM	1621	O	ARG	A	213	34.931	58.617	47.063	1.00	20.12	O
ATOM	1622	CB	ARG	A	213	35.320	55.817	45.348	1.00	20.32	C
ATOM	1623	CG	ARG	A	213	36.740	56.097	45.809	1.00	22.72	C
ATOM	1624	CD	ARG	A	213	37.053	55.352	47.098	1.00	21.64	C
ATOM	1625	NE	ARG	A	213	37.273	53.936	46.824	1.00	25.88	N
ATOM	1626	CZ	ARG	A	213	37.334	52.987	47.755	1.00	27.83	C
ATOM	1627	NH1	ARG	A	213	37.188	53.298	49.044	1.00	24.14	N
ATOM	1628	NH2	ARG	A	213	37.538	51.725	47.389	1.00	23.16	N
ATOM	1629	N	LEU	A	214	33.945	58.556	45.037	1.00	18.71	N
ATOM	1630	CA	LEU	A	214	34.026	60.000	44.840	1.00	18.60	C
ATOM	1631	C	LEU	A	214	33.360	60.768	45.986	1.00	20.44	C
ATOM	1632	O	LEU	A	214	33.910	61.758	46.480	1.00	23.46	O
ATOM	1633	CB	LEU	A	214	33.381	60.391	43.507	1.00	15.44	C
ATOM	1634	CG	LEU	A	214	33.341	61.894	43.191	1.00	15.51	C
ATOM	1635	CD1	LEU	A	214	34.764	62.431	43.094	1.00	12.84	C
ATOM	1636	CD2	LEU	A	214	32.592	62.140	41.883	1.00	13.20	C
ATOM	1637	N	ALA	A	215	32.182	60.314	46.412	1.00	20.32	N
ATOM	1638	CA	ALA	A	215	31.463	60.966	47.504	1.00	19.31	C
ATOM	1639	C	ALA	A	215	32.314	60.941	48.764	1.00	18.44	C



ATOM	1640	O	ALA	A	215	32.421	61.943	49.473	1.00	17.73	O
ATOM	1641	CB	ALA	A	215	30.116	60.264	47.762	1.00	18.29	C
ATOM	1642	N	ALA	A	216	32.916	59.789	49.044	1.00	19.51	N
ATOM	1643	CA	ALA	A	216	33.773	59.648	50.222	1.00	20.64	C
ATOM	1644	C	ALA	A	216	34.963	60.615	50.149	1.00	22.06	C
ATOM	1645	O	ALA	A	216	35.274	61.290	51.131	1.00	24.25	O
ATOM	1646	CB	ALA	A	216	34.270	58.208	50.349	1.00	18.31	C
ATOM	1647	N	ASP	A	217	35.613	60.696	48.986	1.00	21.36	N
ATOM	1648	CA	ASP	A	217	36.767	61.590	48.814	1.00	20.87	C
ATOM	1649	C	ASP	A	217	36.389	63.057	48.962	1.00	21.03	C
ATOM	1650	O	ASP	A	217	37.139	63.833	49.544	1.00	21.92	O
ATOM	1651	CB	ASP	A	217	37.431	61.397	47.438	1.00	19.72	C
ATOM	1652	CG	ASP	A	217	38.072	60.029	47.279	1.00	19.02	C
ATOM	1653	OD1	ASP	A	217	38.481	59.430	48.293	1.00	21.50	O
ATOM	1654	OD2	ASP	A	217	38.185	59.555	46.133	1.00	21.67	O
ATOM	1655	N	VAL	A	218	35.236	63.436	48.420	1.00	20.37	N
ATOM	1656	CA	VAL	A	218	34.776	64.820	48.495	1.00	19.91	C
ATOM	1657	C	VAL	A	218	34.397	65.170	49.935	1.00	20.14	C
ATOM	1658	O	VAL	A	218	34.449	66.331	50.343	1.00	19.85	O
ATOM	1659	CB	VAL	A	218	33.568	65.051	47.547	1.00	21.26	C
ATOM	1660	CG1	VAL	A	218	32.966	66.443	47.768	1.00	18.63	C
ATOM	1661	CG2	VAL	A	218	34.020	64.895	46.103	1.00	16.55	C
ATOM	1662	N	ALA	A	219	34.020	64.152	50.697	1.00	20.35	N
ATOM	1663	CA	ALA	A	219	33.655	64.325	52.096	1.00	21.83	C
ATOM	1664	C	ALA	A	219	34.924	64.118	52.921	1.00	22.37	C
ATOM	1665	O	ALA	A	219	34.897	64.144	54.151	1.00	24.27	O
ATOM	1666	CB	ALA	A	219	32.588	63.301	52.497	1.00	20.03	C
ATOM	1667	N	ASP	A	220	36.031	63.894	52.218	1.00	21.94	N
ATOM	1668	CA	ASP	A	220	37.341	63.684	52.826	1.00	22.23	C
ATOM	1669	C	ASP	A	220	37.410	62.638	53.949	1.00	21.14	C
ATOM	1670	O	ASP	A	220	37.914	62.918	55.033	1.00	22.39	O
ATOM	1671	CB	ASP	A	220	37.910	65.036	53.310	1.00	23.13	C
ATOM	1672	CG	ASP	A	220	39.327	64.917	53.872	1.00	25.75	C
ATOM	1673	OD1	ASP	A	220	40.155	64.181	53.288	1.00	26.11	O
ATOM	1674	OD2	ASP	A	220	39.617	65.570	54.898	1.00	26.49	O
ATOM	1675	N	VAL	A	221	36.909	61.432	53.686	1.00	21.05	N
ATOM	1676	CA	VAL	A	221	36.970	60.338	54.660	1.00	20.14	C
ATOM	1677	C	VAL	A	221	37.218	59.025	53.925	1.00	21.00	C
ATOM	1678	O	VAL	A	221	36.707	58.811	52.824	1.00	23.36	O
ATOM	1679	CB	VAL	A	221	35.665	60.215	55.520	1.00	20.86	C
ATOM	1680	CG1	VAL	A	221	35.564	61.385	56.487	1.00	18.42	C
ATOM	1681	CG2	VAL	A	221	34.434	60.159	54.622	1.00	20.49	C
ATOM	1682	N	PRO	A	222	38.017	58.128	54.520	1.00	21.13	N
ATOM	1683	CA	PRO	A	222	38.358	56.821	53.941	1.00	20.44	C
ATOM	1684	C	PRO	A	222	37.289	55.734	54.089	1.00	20.31	C
ATOM	1685	O	PRO	A	222	37.607	54.599	54.459	1.00	19.29	O
ATOM	1686	CB	PRO	A	222	39.635	56.453	54.687	1.00	20.84	C
ATOM	1687	CG	PRO	A	222	39.354	56.983	56.059	1.00	20.66	C
ATOM	1688	CD	PRO	A	222	38.790	58.362	55.755	1.00	21.38	C
ATOM	1689	N	THR	A	223	36.035	56.072	53.786	1.00	20.33	N
ATOM	1690	CA	THR	A	223	34.917	55.124	53.909	1.00	18.76	C
ATOM	1691	C	THR	A	223	35.165	53.777	53.224	1.00	19.98	C
ATOM	1692	O	THR	A	223	35.538	53.726	52.048	1.00	21.27	O
ATOM	1693	CB	THR	A	223	33.620	55.704	53.308	1.00	17.48	C
ATOM	1694	OG1	THR	A	223	33.412	57.030	53.799	1.00	17.86	O
ATOM	1695	CG2	THR	A	223	32.426	54.841	53.692	1.00	17.28	C
ATOM	1696	N	VAL	A	224	34.938	52.687	53.952	1.00	18.95	N
ATOM	1697	CA	VAL	A	224	35.123	51.351	53.387	1.00	19.20	C
ATOM	1698	C	VAL	A	224	34.023	51.053	52.361	1.00	21.33	C
ATOM	1699	O	VAL	A	224	32.836	51.048	52.698	1.00	22.07	O
ATOM	1700	CB	VAL	A	224	35.120	50.278	54.510	1.00	17.91	C
ATOM	1701	CG1	VAL	A	224	35.071	48.875	53.921	1.00	15.22	C
ATOM	1702	CG2	VAL	A	224	36.382	50.427	55.352	1.00	19.03	C
ATOM	1703	N	VAL	A	225	34.422	50.819	51.109	1.00	22.11	N
ATOM	1704	CA	VAL	A	225	33.473	50.540	50.031	1.00	20.17	C
ATOM	1705	C	VAL	A	225	33.384	49.056	49.703	1.00	22.10	C
ATOM	1706	O	VAL	A	225	34.372	48.425	49.335	1.00	21.81	O
ATOM	1707	CB	VAL	A	225	33.836	51.325	48.750	1.00	21.12	C
ATOM	1708	CG1	VAL	A	225	32.850	51.006	47.633	1.00	16.75	C
ATOM	1709	CG2	VAL	A	225	33.824	52.820	49.042	1.00	19.75	C
ATOM	1710	N	ILE	A	226	32.177	48.514	49.831	1.00	22.22	N
ATOM	1711	CA	ILE	A	226	31.918	47.104	49.586	1.00	20.98	C
ATOM	1712	C	ILE	A	226	31.101	46.881	48.323	1.00	22.41	C
ATOM	1713	O	ILE	A	226	30.050	47.500	48.135	1.00	21.56	O
ATOM	1714	CB	ILE	A	226	31.164	46.488	50.776	1.00	21.18	C
ATOM	1715	CG1	ILE	A	226	31.981	46.694	52.049	1.00	20.41	C
ATOM	1716	CG2	ILE	A	226	30.890	45.007	50.531	1.00	18.59	C
ATOM	1717	CD1	ILE	A	226	31.218	46.380	53.312	1.00	23.72	C
ATOM	1718	N	ALA	A	227	31.592	45.982	47.471	1.00	21.79	N
ATOM	1719	CA	ALA	A	227	30.938	45.648	46.216	1.00	20.69	C



ATOM	1720	C	ALA	A	227	30.207	44.319	46.345	1.00	20.12	C
ATOM	1721	O	ALA	A	227	30.792	43.315	46.742	1.00	18.85	O
ATOM	1722	CB	ALA	A	227	31.971	45.568	45.099	1.00	24.03	C
ATOM	1723	N	ARG	A	228	28.925	44.316	45.998	1.00	19.72	N
ATOM	1724	CA	ARG	A	228	28.115	43.111	46.086	1.00	19.94	C
ATOM	1725	C	ARG	A	228	27.546	42.697	44.739	1.00	20.64	C
ATOM	1726	O	ARG	A	228	27.097	43.538	43.962	1.00	20.48	O
ATOM	1727	CB	ARG	A	228	26.963	43.326	47.077	1.00	20.36	C
ATOM	1728	CG	ARG	A	228	25.791	42.369	46.877	1.00	21.81	C
ATOM	1729	CD	ARG	A	228	24.688	42.567	47.924	1.00	22.62	C
ATOM	1730	NE	ARG	A	228	23.393	42.110	47.424	1.00	20.73	N
ATOM	1731	CZ	ARG	A	228	22.316	41.930	48.175	1.00	20.13	C
ATOM	1732	NH1	ARG	A	228	22.368	42.164	49.478	1.00	19.21	N
ATOM	1733	NH2	ARG	A	228	21.182	41.523	47.617	1.00	20.20	N
ATOM	1734	N	THR	A	229	27.568	41.398	44.462	1.00	20.35	N
ATOM	1735	CA	THR	A	229	27.014	40.900	43.215	1.00	20.27	C
ATOM	1736	C	THR	A	229	25.889	39.920	43.500	1.00	19.60	C
ATOM	1737	O	THR	A	229	25.975	39.105	44.414	1.00	19.04	O
ATOM	1738	CB	THR	A	229	28.067	40.193	42.337	1.00	21.42	C
ATOM	1739	OG1	THR	A	229	27.468	39.848	41.078	1.00	21.21	O
ATOM	1740	CG2	THR	A	229	28.576	38.917	43.017	1.00	22.30	C
ATOM	1741	N	ASP	A	230	24.831	40.021	42.709	1.00	19.60	N
ATOM	1742	CA	ASP	A	230	23.664	39.166	42.841	1.00	22.30	C
ATOM	1743	C	ASP	A	230	23.550	38.224	41.652	1.00	23.13	C
ATOM	1744	O	ASP	A	230	22.487	37.657	41.400	1.00	24.37	O
ATOM	1745	CB	ASP	A	230	22.411	40.038	42.934	1.00	21.81	C
ATOM	1746	CG	ASP	A	230	22.189	40.580	44.327	1.00	22.47	C
ATOM	1747	OD1	ASP	A	230	21.595	39.844	45.141	1.00	18.62	O
ATOM	1748	OD2	ASP	A	230	22.619	41.724	44.608	1.00	18.77	O
ATOM	1749	N	ALA	A	231	24.654	38.059	40.927	1.00	25.05	N
ATOM	1750	CA	ALA	A	231	24.687	37.205	39.740	1.00	25.35	C
ATOM	1751	C	ALA	A	231	24.576	35.708	40.018	1.00	25.67	C
ATOM	1752	O	ALA	A	231	24.450	34.917	39.085	1.00	25.82	O
ATOM	1753	CB	ALA	A	231	25.959	37.484	38.936	1.00	26.25	C
ATOM	1754	N	GLU	A	232	24.622	35.318	41.288	1.00	24.94	N
ATOM	1755	CA	GLU	A	232	24.529	33.906	41.648	1.00	26.37	C
ATOM	1756	C	GLU	A	232	23.152	33.331	41.305	1.00	26.39	C
ATOM	1757	O	GLU	A	232	23.053	32.231	40.759	1.00	24.54	O
ATOM	1758	CB	GLU	A	232	24.817	33.725	43.144	1.00	28.78	C
ATOM	1759	CG	GLU	A	232	25.167	32.301	43.577	1.00	31.45	C
ATOM	1760	CD	GLU	A	232	23.961	31.396	43.735	1.00	32.12	C
ATOM	1761	OE1	GLU	A	232	23.022	31.769	44.460	1.00	34.25	O
ATOM	1762	OE2	GLU	A	232	23.956	30.301	43.143	1.00	35.08	O
ATOM	1763	N	ALA	A	233	22.092	34.080	41.607	1.00	25.33	N
ATOM	1764	CA	ALA	A	233	20.734	33.609	41.331	1.00	25.18	C
ATOM	1765	C	ALA	A	233	19.990	34.423	40.268	1.00	25.07	C
ATOM	1766	O	ALA	A	233	19.026	33.942	39.677	1.00	25.79	O
ATOM	1767	CB	ALA	A	233	19.924	33.578	42.623	1.00	22.80	C
ATOM	1768	N	ALA	A	234	20.438	35.647	40.013	1.00	25.89	N
ATOM	1769	CA	ALA	A	234	19.775	36.493	39.021	1.00	25.44	C
ATOM	1770	C	ALA	A	234	19.837	35.884	37.623	1.00	26.42	C
ATOM	1771	O	ALA	A	234	20.919	35.541	37.135	1.00	26.38	O
ATOM	1772	CB	ALA	A	234	20.405	37.880	39.012	1.00	24.54	C
ATOM	1773	N	THR	A	235	18.674	35.755	36.987	1.00	25.28	N
ATOM	1774	CA	THR	A	235	18.591	35.197	35.639	1.00	24.75	C
ATOM	1775	C	THR	A	235	18.186	36.255	34.613	1.00	25.36	C
ATOM	1776	O	THR	A	235	17.837	35.928	33.476	1.00	25.43	O
ATOM	1777	CB	THR	A	235	17.577	34.033	35.562	1.00	25.06	C
ATOM	1778	OG1	THR	A	235	16.278	34.494	35.952	1.00	25.22	O
ATOM	1779	CG2	THR	A	235	18.004	32.895	36.470	1.00	24.89	C
ATOM	1780	N	LEU	A	236	18.235	37.521	35.019	1.00	24.41	N
ATOM	1781	CA	LEU	A	236	17.888	38.630	34.139	1.00	23.25	C
ATOM	1782	C	LEU	A	236	18.896	39.768	34.259	1.00	22.99	C
ATOM	1783	O	LEU	A	236	19.455	40.006	35.329	1.00	23.57	O
ATOM	1784	CB	LEU	A	236	16.496	39.158	34.480	1.00	24.80	C
ATOM	1785	CG	LEU	A	236	15.329	38.198	34.247	1.00	25.74	C
ATOM	1786	CD1	LEU	A	236	14.056	38.778	34.836	1.00	26.36	C
ATOM	1787	CD2	LEU	A	236	15.171	37.950	32.758	1.00	24.39	C
ATOM	1788	N	ILE	A	237	19.130	40.465	33.155	1.00	21.98	N
ATOM	1789	CA	ILE	A	237	20.049	41.591	33.149	1.00	21.04	C
ATOM	1790	C	ILE	A	237	19.391	42.640	32.272	1.00	22.59	C
ATOM	1791	O	ILE	A	237	18.672	42.297	31.330	1.00	21.33	O
ATOM	1792	CB	ILE	A	237	21.447	41.186	32.602	1.00	20.63	C
ATOM	1793	CG1	ILE	A	237	22.409	42.368	32.714	1.00	20.14	C
ATOM	1794	CG2	ILE	A	237	21.340	40.698	31.171	1.00	20.78	C
ATOM	1795	CD1	ILE	A	237	23.846	42.020	32.396	1.00	18.49	C
ATOM	1796	N	THR	A	238	19.602	43.915	32.591	1.00	22.86	N
ATOM	1797	CA	THR	A	238	18.970	44.981	31.822	1.00	24.02	C
ATOM	1798	C	THR	A	238	19.473	45.101	30.397	1.00	24.62	C
ATOM	1799	O	THR	A	238	18.695	45.380	29.487	1.00	25.30	O



ATOM	1800	CB	THR	A	238	19.137	46.367	32.493	1.00	23.69	C
ATOM	1801	OG1	THR	A	238	20.528	46.655	32.660	1.00	23.61	O
ATOM	1802	CG2	THR	A	238	18.431	46.404	33.844	1.00	22.99	C
ATOM	1803	N	SER	A	239	20.766	44.888	30.192	1.00	25.47	N
ATOM	1804	CA	SER	A	239	21.322	45.030	28.855	1.00	26.38	C
ATOM	1805	C	SER	A	239	22.502	44.109	28.567	1.00	26.71	C
ATOM	1806	O	SER	A	239	23.135	43.587	29.483	1.00	27.39	O
ATOM	1807	CB	SER	A	239	21.741	46.487	28.650	1.00	24.38	C
ATOM	1808	OG	SER	A	239	22.303	46.677	27.372	1.00	25.56	O
ATOM	1809	N	ASP	A	240	22.795	43.922	27.283	1.00	26.46	N
ATOM	1810	CA	ASP	A	240	23.906	43.075	26.859	1.00	25.45	C
ATOM	1811	C	ASP	A	240	25.037	43.940	26.300	1.00	25.86	C
ATOM	1812	O	ASP	A	240	25.954	43.441	25.647	1.00	27.03	O
ATOM	1813	CB	ASP	A	240	23.423	42.099	25.787	1.00	26.76	C
ATOM	1814	CG	ASP	A	240	23.024	42.799	24.498	1.00	29.30	C
ATOM	1815	OD1	ASP	A	240	22.588	43.970	24.549	1.00	27.88	O
ATOM	1816	OD2	ASP	A	240	23.136	42.168	23.428	1.00	32.35	O
ATOM	1817	N	VAL	A	241	24.966	45.237	26.574	1.00	25.24	N
ATOM	1818	CA	VAL	A	241	25.953	46.197	26.094	1.00	26.65	C
ATOM	1819	C	VAL	A	241	27.386	45.920	26.537	1.00	27.56	C
ATOM	1820	O	VAL	A	241	28.328	46.185	25.789	1.00	28.41	O
ATOM	1821	CB	VAL	A	241	25.581	47.626	26.539	1.00	28.46	C
ATOM	1822	CG1	VAL	A	241	25.647	47.732	28.062	1.00	26.65	C
ATOM	1823	CG2	VAL	A	241	26.510	48.637	25.881	1.00	30.04	C
ATOM	1824	N	ASP	A	242	27.557	45.391	27.745	1.00	27.11	N
ATOM	1825	CA	ASP	A	242	28.895	45.111	28.251	1.00	27.19	C
ATOM	1826	C	ASP	A	242	29.414	43.764	27.775	1.00	28.44	C
ATOM	1827	O	ASP	A	242	28.814	42.722	28.041	1.00	27.46	O
ATOM	1828	CB	ASP	A	242	28.914	45.149	29.779	1.00	27.05	C
ATOM	1829	CG	ASP	A	242	30.310	45.335	30.332	1.00	27.10	C
ATOM	1830	OD1	ASP	A	242	31.210	44.549	29.965	1.00	30.77	O
ATOM	1831	OD2	ASP	A	242	30.511	46.269	31.133	1.00	25.36	O
ATOM	1832	N	GLU	A	243	30.548	43.797	27.083	1.00	29.09	N
ATOM	1833	CA	GLU	A	243	31.170	42.594	26.544	1.00	30.76	C
ATOM	1834	C	GLU	A	243	31.471	41.540	27.600	1.00	28.79	C
ATOM	1835	O	GLU	A	243	31.487	40.348	27.300	1.00	27.45	O
ATOM	1836	CB	GLU	A	243	32.455	42.964	25.792	1.00	35.84	C
ATOM	1837	CG	GLU	A	243	32.209	43.768	24.508	1.00	42.52	C
ATOM	1838	CD	GLU	A	243	33.497	44.161	23.788	1.00	46.97	C
ATOM	1839	OE1	GLU	A	243	34.311	43.259	23.486	1.00	48.21	O
ATOM	1840	OE2	GLU	A	243	33.691	45.371	23.518	1.00	48.40	O
ATOM	1841	N	ARG	A	244	31.707	41.977	28.832	1.00	27.06	N
ATOM	1842	CA	ARG	A	244	32.008	41.051	29.917	1.00	26.90	C
ATOM	1843	C	ARG	A	244	30.781	40.252	30.352	1.00	26.04	C
ATOM	1844	O	ARG	A	244	30.909	39.175	30.934	1.00	27.39	O
ATOM	1845	CB	ARG	A	244	32.581	41.814	31.118	1.00	28.64	C
ATOM	1846	CG	ARG	A	244	34.029	42.270	30.944	1.00	28.08	C
ATOM	1847	CD	ARG	A	244	34.420	43.290	32.006	1.00	27.64	C
ATOM	1848	NE	ARG	A	244	33.593	44.488	31.896	1.00	29.06	N
ATOM	1849	CZ	ARG	A	244	33.883	45.659	32.452	1.00	28.26	C
ATOM	1850	NH1	ARG	A	244	34.988	45.805	33.174	1.00	26.29	N
ATOM	1851	NH2	ARG	A	244	33.072	46.693	32.265	1.00	26.54	N
ATOM	1852	N	ASP	A	245	29.594	40.779	30.065	1.00	24.78	N
ATOM	1853	CA	ASP	A	245	28.350	40.111	30.438	1.00	22.84	C
ATOM	1854	C	ASP	A	245	27.816	39.235	29.312	1.00	22.66	C
ATOM	1855	O	ASP	A	245	27.121	38.257	29.554	1.00	22.50	O
ATOM	1856	CB	ASP	A	245	27.289	41.147	30.818	1.00	22.32	C
ATOM	1857	CG	ASP	A	245	27.731	42.047	31.957	1.00	22.73	C
ATOM	1858	OD1	ASP	A	245	28.351	41.524	32.907	1.00	21.63	O
ATOM	1859	OD2	ASP	A	245	27.453	43.268	31.909	1.00	21.49	O
ATOM	1860	N	GLN	A	246	28.150	39.587	28.078	1.00	23.81	N
ATOM	1861	CA	GLN	A	246	27.682	38.837	26.920	1.00	26.64	C
ATOM	1862	C	GLN	A	246	27.873	37.318	26.961	1.00	25.96	C
ATOM	1863	O	GLN	A	246	27.017	36.573	26.498	1.00	27.12	O
ATOM	1864	CB	GLN	A	246	28.308	39.418	25.652	1.00	26.72	C
ATOM	1865	CG	GLN	A	246	27.705	40.761	25.270	1.00	28.54	C
ATOM	1866	CD	GLN	A	246	28.499	41.479	24.199	1.00	30.03	C
ATOM	1867	OE1	GLN	A	246	29.322	40.875	23.510	1.00	31.86	O
ATOM	1868	NE2	GLN	A	246	28.248	42.776	24.045	1.00	28.71	N
ATOM	1869	N	PRO	A	247	28.983	36.834	27.529	1.00	27.26	N
ATOM	1870	CA	PRO	A	247	29.170	35.379	27.568	1.00	27.77	C
ATOM	1871	C	PRO	A	247	28.035	34.617	28.252	1.00	28.86	C
ATOM	1872	O	PRO	A	247	27.824	33.430	27.985	1.00	29.52	O
ATOM	1873	CB	PRO	A	247	30.492	35.224	28.319	1.00	28.55	C
ATOM	1874	CG	PRO	A	247	31.234	36.469	27.941	1.00	26.53	C
ATOM	1875	CD	PRO	A	247	30.164	37.525	28.074	1.00	26.14	C
ATOM	1876	N	PHE	A	248	27.300	35.301	29.123	1.00	28.01	N
ATOM	1877	CA	PHE	A	248	26.208	34.680	29.868	1.00	27.45	C
ATOM	1878	C	PHE	A	248	24.814	34.941	29.296	1.00	28.13	C
ATOM	1879	O	PHE	A	248	23.838	34.311	29.716	1.00	28.65	O



ATOM	1880	CB	PHE	A	248	26.267	35.163	31.315	1.00	27.52	C
ATOM	1881	CG	PHE	A	248	27.622	35.021	31.937	1.00	26.08	C
ATOM	1882	CD1	PHE	A	248	28.076	33.781	32.367	1.00	26.21	C
ATOM	1883	CD2	PHE	A	248	28.461	36.122	32.062	1.00	24.98	C
ATOM	1884	CE1	PHE	A	248	29.350	33.634	32.914	1.00	26.32	C
ATOM	1885	CE2	PHE	A	248	29.739	35.987	32.606	1.00	25.02	C
ATOM	1886	CZ	PHE	A	248	30.184	34.739	33.033	1.00	24.95	C
ATOM	1887	N	ILE	A	249	24.721	35.863	28.344	1.00	29.21	N
ATOM	1888	CA	ILE	A	249	23.444	36.213	27.728	1.00	30.19	C
ATOM	1889	C	ILE	A	249	22.942	35.086	26.827	1.00	32.17	C
ATOM	1890	O	ILE	A	249	23.646	34.644	25.920	1.00	32.64	O
ATOM	1891	CB	ILE	A	249	23.571	37.513	26.893	1.00	30.87	C
ATOM	1892	CG1	ILE	A	249	24.181	38.631	27.749	1.00	32.45	C
ATOM	1893	CG2	ILE	A	249	22.208	37.934	26.366	1.00	30.45	C
ATOM	1894	CD1	ILE	A	249	23.405	38.959	28.997	1.00	31.88	C
ATOM	1895	N	THR	A	250	21.721	34.623	27.077	1.00	33.14	N
ATOM	1896	CA	THR	A	250	21.145	33.543	26.282	1.00	35.28	C
ATOM	1897	C	THR	A	250	20.552	34.011	24.959	1.00	36.69	C
ATOM	1898	O	THR	A	250	20.511	33.251	23.998	1.00	38.72	O
ATOM	1899	CB	THR	A	250	20.035	32.799	27.050	1.00	35.30	C
ATOM	1900	OG1	THR	A	250	18.874	33.633	27.157	1.00	34.35	O
ATOM	1901	CG2	THR	A	250	20.517	32.431	28.440	1.00	36.55	C
ATOM	1902	N	GLY	A	251	20.091	35.256	24.910	1.00	37.66	N
ATOM	1903	CA	GLY	A	251	19.494	35.772	23.691	1.00	38.08	C
ATOM	1904	C	GLY	A	251	18.001	36.012	23.856	1.00	39.01	C
ATOM	1905	O	GLY	A	251	17.404	36.807	23.128	1.00	39.44	O
ATOM	1906	N	GLU	A	252	17.396	35.323	24.819	1.00	39.14	N
ATOM	1907	CA	GLU	A	252	15.968	35.466	25.094	1.00	39.90	C
ATOM	1908	C	GLU	A	252	15.684	36.774	25.824	1.00	39.70	C
ATOM	1909	O	GLU	A	252	16.487	37.230	26.641	1.00	39.05	O
ATOM	1910	CB	GLU	A	252	15.488	34.322	25.970	1.00	41.01	C
ATOM	1911	CG	GLU	A	252	16.103	32.993	25.638	1.00	44.68	C
ATOM	1912	CD	GLU	A	252	15.940	32.014	26.776	1.00	47.62	C
ATOM	1913	OE1	GLU	A	252	14.784	31.653	27.081	1.00	50.26	O
ATOM	1914	OE2	GLU	A	252	16.965	31.618	27.377	1.00	47.88	O
ATOM	1915	N	ARG	A	253	14.525	37.356	25.537	1.00	39.41	N
ATOM	1916	CA	ARG	A	253	14.109	38.613	26.146	1.00	38.69	C
ATOM	1917	C	ARG	A	253	12.718	38.440	26.757	1.00	38.09	C
ATOM	1918	O	ARG	A	253	11.929	37.629	26.280	1.00	38.62	O
ATOM	1919	CB	ARG	A	253	14.069	39.711	25.078	1.00	40.50	C
ATOM	1920	CG	ARG	A	253	15.408	40.019	24.424	1.00	41.68	C
ATOM	1921	CD	ARG	A	253	16.176	41.073	25.197	1.00	43.73	C
ATOM	1922	NE	ARG	A	253	15.703	42.431	24.926	1.00	45.35	N
ATOM	1923	CZ	ARG	A	253	15.842	43.052	23.758	1.00	47.08	C
ATOM	1924	NH1	ARG	A	253	16.440	42.436	22.744	1.00	48.05	N
ATOM	1925	NH2	ARG	A	253	15.394	44.291	23.604	1.00	47.89	N
ATOM	1926	N	THR	A	254	12.426	39.192	27.817	1.00	36.71	N
ATOM	1927	CA	THR	A	254	11.115	39.129	28.465	1.00	34.94	C
ATOM	1928	C	THR	A	254	10.227	40.209	27.844	1.00	35.23	C
ATOM	1929	O	THR	A	254	10.684	40.990	27.010	1.00	33.47	O
ATOM	1930	CB	THR	A	254	11.211	39.402	29.985	1.00	33.94	C
ATOM	1931	OG1	THR	A	254	11.697	40.732	30.205	1.00	30.98	O
ATOM	1932	CG2	THR	A	254	12.152	38.406	30.652	1.00	32.78	C
ATOM	1933	N	ARG	A	255	8.965	40.262	28.253	1.00	35.81	N
ATOM	1934	CA	ARG	A	255	8.054	41.264	27.713	1.00	36.82	C
ATOM	1935	C	ARG	A	255	8.486	42.680	28.096	1.00	35.44	C
ATOM	1936	O	ARG	A	255	8.149	43.641	27.403	1.00	35.64	O
ATOM	1937	CB	ARG	A	255	6.629	41.008	28.205	1.00	39.42	C
ATOM	1938	CG	ARG	A	255	6.072	39.657	27.795	1.00	44.31	C
ATOM	1939	CD	ARG	A	255	4.641	39.479	28.279	1.00	50.35	C
ATOM	1940	NE	ARG	A	255	3.739	40.476	27.705	1.00	55.10	N
ATOM	1941	CZ	ARG	A	255	3.485	40.599	26.404	1.00	58.25	C
ATOM	1942	NH1	ARG	A	255	4.064	39.784	25.527	1.00	59.22	N
ATOM	1943	NH2	ARG	A	255	2.651	41.541	25.977	1.00	59.81	N
ATOM	1944	N	GLU	A	256	9.229	42.807	29.194	1.00	33.44	N
ATOM	1945	CA	GLU	A	256	9.702	44.117	29.640	1.00	32.07	C
ATOM	1946	C	GLU	A	256	10.947	44.525	28.873	1.00	30.94	C
ATOM	1947	O	GLU	A	256	11.331	45.693	28.878	1.00	30.92	O
ATOM	1948	CB	GLU	A	256	10.017	44.108	31.142	1.00	30.49	C
ATOM	1949	CG	GLU	A	256	8.833	43.739	32.013	1.00	29.82	C
ATOM	1950	CD	GLU	A	256	8.853	42.290	32.452	1.00	27.99	C
ATOM	1951	OE1	GLU	A	256	9.336	41.436	31.681	1.00	27.74	O
ATOM	1952	OE2	GLU	A	256	8.372	42.008	33.570	1.00	25.56	O
ATOM	1953	N	GLY	A	257	11.574	43.556	28.213	1.00	29.87	N
ATOM	1954	CA	GLY	A	257	12.775	43.851	27.455	1.00	29.47	C
ATOM	1955	C	GLY	A	257	14.065	43.427	28.137	1.00	29.34	C
ATOM	1956	O	GLY	A	257	15.158	43.735	27.654	1.00	29.75	O
ATOM	1957	N	PHE	A	258	13.953	42.728	29.264	1.00	27.88	N
ATOM	1958	CA	PHE	A	258	15.140	42.272	29.968	1.00	27.45	C
ATOM	1959	C	PHE	A	258	15.751	41.099	29.208	1.00	28.91	C



ATOM	1960	O	PHE	A	258	15.064	40.401	28.457	1.00	30.83	O
ATOM	1961	CB	PHE	A	258	14.800	41.824	31.393	1.00	24.38	C
ATOM	1962	CG	PHE	A	258	14.171	42.896	32.238	1.00	25.43	C
ATOM	1963	CD1	PHE	A	258	14.754	44.157	32.342	1.00	25.81	C
ATOM	1964	CD2	PHE	A	258	12.993	42.643	32.940	1.00	24.55	C
ATOM	1965	CE1	PHE	A	258	14.175	45.152	33.130	1.00	24.50	C
ATOM	1966	CE2	PHE	A	258	12.407	43.629	33.731	1.00	23.55	C
ATOM	1967	CZ	PHE	A	258	13.001	44.887	33.825	1.00	24.46	C
ATOM	1968	N	TYR	A	259	17.047	40.887	29.406	1.00	29.16	N
ATOM	1969	CA	TYR	A	259	17.750	39.789	28.757	1.00	28.04	C
ATOM	1970	C	TYR	A	259	17.965	38.649	29.744	1.00	27.75	C
ATOM	1971	O	TYR	A	259	18.387	38.874	30.879	1.00	26.14	O
ATOM	1972	CB	TYR	A	259	19.120	40.244	28.247	1.00	26.94	C
ATOM	1973	CG	TYR	A	259	19.090	41.264	27.136	1.00	26.58	C
ATOM	1974	CD1	TYR	A	259	18.737	42.592	27.383	1.00	24.86	C
ATOM	1975	CD2	TYR	A	259	19.453	40.908	25.836	1.00	26.34	C
ATOM	1976	CE1	TYR	A	259	18.754	43.542	26.358	1.00	26.18	C
ATOM	1977	CE2	TYR	A	259	19.471	41.850	24.805	1.00	25.05	C
ATOM	1978	CZ	TYR	A	259	19.126	43.161	25.071	1.00	24.86	C
ATOM	1979	OH	TYR	A	259	19.183	44.091	24.056	1.00	25.85	O
ATOM	1980	N	ARG	A	260	17.675	37.427	29.309	1.00	28.63	N
ATOM	1981	CA	ARG	A	260	17.884	36.257	30.153	1.00	28.96	C
ATOM	1982	C	ARG	A	260	19.387	36.047	30.203	1.00	28.14	C
ATOM	1983	O	ARG	A	260	20.073	36.203	29.195	1.00	26.53	O
ATOM	1984	CB	ARG	A	260	17.218	35.022	29.547	1.00	30.78	C
ATOM	1985	CG	ARG	A	260	15.711	35.011	29.646	1.00	35.75	C
ATOM	1986	CD	ARG	A	260	15.264	34.845	31.088	1.00	41.55	C
ATOM	1987	NE	ARG	A	260	13.807	34.824	31.215	1.00	45.12	N
ATOM	1988	CZ	ARG	A	260	13.162	34.802	32.377	1.00	46.71	C
ATOM	1989	NH1	ARG	A	260	13.850	34.797	33.516	1.00	48.13	N
ATOM	1990	NH2	ARG	A	260	11.832	34.788	32.403	1.00	48.33	N
ATOM	1991	N	THR	A	261	19.902	35.698	31.374	1.00	28.72	N
ATOM	1992	CA	THR	A	261	21.337	35.491	31.524	1.00	28.77	C
ATOM	1993	C	THR	A	261	21.578	34.247	32.374	1.00	28.87	C
ATOM	1994	O	THR	A	261	20.749	33.892	33.215	1.00	26.76	O
ATOM	1995	CB	THR	A	261	21.995	36.742	32.178	1.00	27.85	C
ATOM	1996	OG1	THR	A	261	23.421	36.590	32.197	1.00	26.93	O
ATOM	1997	CG2	THR	A	261	21.476	36.934	33.605	1.00	25.76	C
ATOM	1998	N	LYS	A	262	22.703	33.576	32.145	1.00	30.47	N
ATOM	1999	CA	LYS	A	262	23.024	32.363	32.898	1.00	31.94	C
ATOM	2000	C	LYS	A	262						



ATOM	2040	CB	PRO	A	267	27.695	35.326	36.320	1.00	28.15	C
ATOM	2041	CG	PRO	A	267	27.324	33.984	35.807	1.00	29.54	C
ATOM	2042	CD	PRO	A	267	28.129	33.055	36.678	1.00	28.85	C
ATOM	2043	N	CYS	A	268	29.526	35.477	38.938	1.00	25.36	N
ATOM	2044	CA	CYS	A	268	29.946	36.178	40.144	1.00	25.16	C
ATOM	2045	C	CYS	A	268	31.454	36.376	40.164	1.00	25.17	C
ATOM	2046	O	CYS	A	268	31.948	37.435	40.557	1.00	25.10	O
ATOM	2047	CB	CYS	A	268	29.509	35.407	41.390	1.00	24.45	C
ATOM	2048	SG	CYS	A	268	27.728	35.401	41.648	1.00	25.79	S
ATOM	2049	N	ILE	A	269	32.189	35.357	39.735	1.00	23.67	N
ATOM	2050	CA	ILE	A	269	33.640	35.446	39.712	1.00	24.63	C
ATOM	2051	C	ILE	A	269	34.102	36.515	38.731	1.00	26.03	C
ATOM	2052	O	ILE	A	269	34.947	37.349	39.061	1.00	26.89	O
ATOM	2053	CB	ILE	A	269	34.263	34.094	39.329	1.00	26.11	C
ATOM	2054	CG1	ILE	A	269	34.016	33.087	40.455	1.00	24.19	C
ATOM	2055	CG2	ILE	A	269	35.757	34.261	39.054	1.00	26.28	C
ATOM	2056	CD1	ILE	A	269	34.392	31.683	40.102	1.00	26.98	C
ATOM	2057	N	ALA	A	270	33.535	36.495	37.527	1.00	26.52	N
ATOM	2058	CA	ALA	A	270	33.891	37.465	36.500	1.00	27.06	C
ATOM	2059	C	ALA	A	270	33.626	38.896	36.971	1.00	26.76	C
ATOM	2060	O	ALA	A	270	34.482	39.771	36.838	1.00	29.28	O
ATOM	2061	CB	ALA	A	270	33.112	37.176	35.213	1.00	26.22	C
ATOM	2062	N	ARG	A	271	32.441	39.136	37.519	1.00	25.91	N
ATOM	2063	CA	ARG	A	271	32.093	40.466	38.006	1.00	24.85	C
ATOM	2064	C	ARG	A	271	32.968	40.869	39.196	1.00	24.16	C
ATOM	2065	O	ARG	A	271	33.423	42.010	39.277	1.00	23.12	O
ATOM	2066	CB	ARG	A	271	30.611	40.512	38.391	1.00	24.88	C
ATOM	2067	CG	ARG	A	271	29.679	40.557	37.181	1.00	23.88	C
ATOM	2068	CD	ARG	A	271	28.230	40.345	37.580	1.00	23.63	C
ATOM	2069	NE	ARG	A	271	27.329	40.545	36.450	1.00	23.98	N
ATOM	2070	CZ	ARG	A	271	26.695	41.682	36.190	1.00	25.20	C
ATOM	2071	NH1	ARG	A	271	26.852	42.733	36.986	1.00	28.70	N
ATOM	2072	NH2	ARG	A	271	25.919	41.776	35.122	1.00	24.11	N
ATOM	2073	N	ALA	A	272	33.205	39.933	40.113	1.00	23.41	N
ATOM	2074	CA	ALA	A	272	34.042	40.209	41.280	1.00	25.95	C
ATOM	2075	C	ALA	A	272	35.395	40.756	40.827	1.00	26.07	C
ATOM	2076	O	ALA	A	272	35.844	41.803	41.302	1.00	28.06	O
ATOM	2077	CB	ALA	A	272	34.236	38.939	42.108	1.00	25.90	C
ATOM	2078	N	LYS	A	273	36.031	40.058	39.891	1.00	25.42	N
ATOM	2079	CA	LYS	A	273	37.323	40.490	39.365	1.00	25.70	C
ATOM	2080	C	LYS	A	273	37.233	41.882	38.749	1.00	25.32	C
ATOM	2081	O	LYS	A	273	38.157	42.680	38.876	1.00	27.02	O
ATOM	2082	CB	LYS	A	273	37.820	39.505	38.302	1.00	25.99	C
ATOM	2083	CG	LYS	A	273	38.093	38.117	38.824	1.00	24.85	C
ATOM	2084	CD	LYS	A	273	38.449	37.170	37.696	1.00	27.01	C
ATOM	2085	CE	LYS	A	273	38.740	35.781	38.233	1.00	29.22	C
ATOM	2086	NZ	LYS	A	273	39.084	34.834	37.129	1.00	33.78	N
ATOM	2087	N	ALA	A	274	36.120	42.166	38.077	1.00	24.23	N
ATOM	2088	CA	ALA	A	274	35.926	43.464	37.442	1.00	23.96	C
ATOM	2089	C	ALA	A	274	35.733	44.566	38.476	1.00	24.71	C
ATOM	2090	O	ALA	A	274	36.130	45.707	38.250	1.00	23.36	O
ATOM	2091	CB	ALA	A	274	34.723	43.423	36.501	1.00	22.70	C
ATOM	2092	N	TYR	A	275	35.124	44.221	39.609	1.00	24.62	N
ATOM	2093	CA	TYR	A	275	34.873	45.192	40.670	1.00	24.47	C
ATOM	2094	C	TYR	A	275	36.077	45.397	41.588	1.00	24.77	C
ATOM	2095	O	TYR	A	275	36.284	46.493	42.112	1.00	23.96	O
ATOM	2096	CB	TYR	A	275	33.684	44.754	41.538	1.00	22.89	C
ATOM	2097	CG	TYR	A	275	32.374	44.510	40.813	1.00	20.43	C
ATOM	2098	CD1	TYR	A	275	32.036	45.216	39.656	1.00	19.48	C
ATOM	2099	CD2	TYR	A	275	31.442	43.610	41.325	1.00	20.55	C
ATOM	2100	CE1	TYR	A	275	30.803	45.027	39.036	1.00	18.07	C
ATOM	2101	CE2	TYR	A	275	30.207	43.418	40.713	1.00	19.65	C
ATOM	2102	CZ	TYR	A	275	29.897	44.126	39.574	1.00	18.68	C
ATOM	2103	OH	TYR	A	275	28.679	43.919	38.973	1.00	20.53	O
ATOM	2104	N	ALA	A	276	36.861	44.338	41.783	1.00	25.56	N
ATOM	2105	CA	ALA	A	276	38.029	44.375	42.668	1.00	24.79	C
ATOM	2106	C	ALA	A	276	38.746	45.720	42.786	1.00	24.69	C
ATOM	2107	O	ALA	A	276	38.879	46.258	43.880	1.00	23.97	O
ATOM	2108	CB	ALA	A	276	39.021	43.292	42.260	1.00	26.69	C
ATOM	2109	N	PRO	A	277	39.205	46.290	41.662	1.00	24.59	N
ATOM	2110	CA	PRO	A	277	39.910	47.577	41.701	1.00	25.73	C
ATOM	2111	C	PRO	A	277	39.116	48.730	42.315	1.00	26.26	C
ATOM	2112	O	PRO	A	277	39.682	49.782	42.628	1.00	26.03	O
ATOM	2113	CB	PRO	A	277	40.233	47.848	40.228	1.00	24.35	C
ATOM	2114	CG	PRO	A	277	40.271	46.477	39.617	1.00	26.08	C
ATOM	2115	CD	PRO	A	277	39.081	45.813	40.275	1.00	26.74	C
ATOM	2116	N	PHE	A	278	37.811	48.535	42.482	1.00	26.01	N
ATOM	2117	CA	PHE	A	278	36.952	49.581	43.025	1.00	26.18	C
ATOM	2118	C	PHE	A	278	36.256	49.161	44.317	1.00	26.60	C
ATOM	2119	O	PHE	A	278	35.347	49.847	44.791	1.00	26.46	O



ATOM	2120	CB	PHE	A	278	35.897	49.954	41.989	1.00	26.85	C
ATOM	2121	CG	PHE	A	278	36.463	50.302	40.643	1.00	27.43	C
ATOM	2122	CD1	PHE	A	278	36.943	51.581	40.383	1.00	27.25	C
ATOM	2123	CD2	PHE	A	278	36.524	49.346	39.635	1.00	27.50	C
ATOM	2124	CE1	PHE	A	278	37.474	51.905	39.136	1.00	27.48	C
ATOM	2125	CE2	PHE	A	278	37.055	49.658	38.388	1.00	28.02	C
ATOM	2126	CZ	PHE	A	278	37.530	50.942	38.139	1.00	26.61	C
ATOM	2127	N	ALA	A	279	36.687	48.044	44.893	1.00	25.59	N
ATOM	2128	CA	ALA	A	279	36.063	47.550	46.108	1.00	26.12	C
ATOM	2129	C	ALA	A	279	37.043	47.179	47.212	1.00	25.83	C
ATOM	2130	O	ALA	A	279	38.025	46.484	46.974	1.00	26.83	O
ATOM	2131	CB	ALA	A	279	35.200	46.347	45.773	1.00	26.26	C
ATOM	2132	N	ASP	A	280	36.762	47.635	48.427	1.00	24.31	N
ATOM	2133	CA	ASP	A	280	37.616	47.309	49.558	1.00	23.23	C
ATOM	2134	C	ASP	A	280	37.299	45.891	50.013	1.00	22.17	C
ATOM	2135	O	ASP	A	280	38.136	45.208	50.600	1.00	21.92	O
ATOM	2136	CB	ASP	A	280	37.396	48.309	50.689	1.00	22.79	C
ATOM	2137	CG	ASP	A	280	37.844	49.698	50.313	1.00	22.29	C
ATOM	2138	OD1	ASP	A	280	38.949	49.820	49.751	1.00	24.05	O
ATOM	2139	OD2	ASP	A	280	37.104	50.666	50.577	1.00	23.84	O
ATOM	2140	N	LEU	A	281	36.076	45.456	49.723	1.00	22.87	N
ATOM	2141	CA	LEU	A	281	35.613	44.113	50.046	1.00	22.52	C
ATOM	2142	C	LEU	A	281	34.616	43.698	48.980	1.00	23.85	C
ATOM	2143	O	LEU	A	281	33.872	44.528	48.447	1.00	24.19	O
ATOM	2144	CB	LEU	A	281	34.929	44.073	51.409	1.00	23.16	C
ATOM	2145	CG	LEU	A	281	35.788	44.312	52.651	1.00	25.29	C
ATOM	2146	CD1	LEU	A	281	35.212	45.473	53.440	1.00	24.64	C
ATOM	2147	CD2	LEU	A	281	35.819	43.049	53.506	1.00	26.47	C
ATOM	2148	N	ILE	A	282	34.596	42.412	48.664	1.00	22.48	N
ATOM	2149	CA	ILE	A	282	33.672	41.923	47.665	1.00	23.43	C
ATOM	2150	C	ILE	A	282	32.774	40.867	48.298	1.00	24.50	C
ATOM	2151	O	ILE	A	282	33.231	40.004	49.058	1.00	24.47	O
ATOM	2152	CB	ILE	A	282	34.417	41.344	46.452	1.00	24.47	C
ATOM	2153	CG1	ILE	A	282	35.364	42.407	45.882	1.00	25.26	C
ATOM	2154	CG2	ILE	A	282	33.419	40.918	45.388	1.00	23.02	C
ATOM	2155	CD1	ILE	A	282	36.164	41.943	44.679	1.00	27.05	C
ATOM	2156	N	TRP	A	283	31.488	40.954	47.984	1.00	23.31	N
ATOM	2157	CA	TRP	A	283	30.507	40.043	48.539	1.00	22.65	C
ATOM	2158	C	TRP	A	283	29.602	39.436	47.475	1.00	23.01	C
ATOM	2159	O	TRP	A	283	29.011	40.137	46.648	1.00	23.49	O
ATOM	2160	CB	TRP	A	283	29.715	40.803	49.607	1.00	22.28	C
ATOM	2161	CG	TRP	A	283	28.348	40.289	49.966	1.00	22.29	C
ATOM	2162	CD1	TRP	A	283	27.885	39.004	49.877	1.00	19.89	C
ATOM	2163	CD2	TRP	A	283	27.290	41.057	50.547	1.00	19.79	C
ATOM	2164	NE1	TRP	A	283	26.607	38.929	50.367	1.00	18.42	N
ATOM	2165	CE2	TRP	A	283	26.216	40.175	50.786	1.00	20.21	C
ATOM	2166	CE3	TRP	A	283	27.149	42.409	50.894	1.00	20.82	C
ATOM	2167	CZ2	TRP	A	283	25.010	40.600	51.357	1.00	19.68	C
ATOM	2168	CZ3	TRP	A	283	25.950	42.833	51.463	1.00	21.34	C
ATOM	2169	CH2	TRP	A	283	24.895	41.926	51.688	1.00	20.08	C
ATOM	2170	N	MET	A	284	29.513	38.113	47.506	1.00	22.31	N
ATOM	2171	CA	MET	A	284	28.688	37.369	46.574	1.00	23.05	C
ATOM	2172	C	MET	A	284	27.534	36.769	47.357	1.00	22.78	C
ATOM	2173	O	MET	A	284	27.749	36.106	48.367	1.00	22.97	O
ATOM	2174	CB	MET	A	284	29.514	36.250	45.934	1.00	25.57	C
ATOM	2175	CG	MET	A	284	28.703	35.212	45.176	1.00	29.17	C
ATOM	2176	SD	MET	A	284	29.671	33.712	44.825	1.00	29.51	S
ATOM	2177	CE	MET	A	284	28.398	32.597	44.391	1.00	29.41	C
ATOM	2178	N	GLU	A	285	26.310	37.028	46.915	1.00	22.95	N
ATOM	2179	CA	GLU	A	285	25.141	36.463	47.573	1.00	22.83	C
ATOM	2180	C	GLU	A	285	25.072	35.006	47.133	1.00	23.38	C
ATOM	2181	O	GLU	A	285	25.437	34.683	46.000	1.00	23.33	O
ATOM	2182	CB	GLU	A	285	23.870	37.192	47.135	1.00	22.48	C
ATOM	2183	CG	GLU	A	285	23.594	38.488	47.882	1.00	25.75	C
ATOM	2184	CD	GLU	A	285	23.168	38.252	49.325	1.00	27.47	C
ATOM	2185	OE1	GLU	A	285	24.012	37.832	50.149	1.00	25.81	O
ATOM	2186	OE2	GLU	A	285	21.976	38.482	49.630	1.00	28.39	O
ATOM	2187	N	THR	A	286	24.623	34.128	48.025	1.00	22.96	N
ATOM	2188	CA	THR	A	286	24.509	32.709	47.697	1.00	24.77	C
ATOM	2189	C	THR	A	286	23.137	32.181	48.118	1.00	24.84	C
ATOM	2190	O	THR	A	286	22.481	32.767	48.971	1.00	24.81	O
ATOM	2191	CB	THR	A	286	25.613	31.874	48.395	1.00	25.67	C
ATOM	2192	OG1	THR	A	286	25.436	31.913	49.818	1.00	24.34	O
ATOM	2193	CG2	THR	A	286	26.989	32.425	48.045	1.00	25.89	C
ATOM	2194	N	GLY	A	287	22.708	31.079	47.511	1.00	25.57	N
ATOM	2195	CA	GLY	A	287	21.417	30.505	47.850	1.00	26.50	C
ATOM	2196	C	GLY	A	287	21.452	29.574	49.051	1.00	27.05	C
ATOM	2197	O	GLY	A	287	20.404	29.181	49.565	1.00	28.25	O
ATOM	2198	N	THR	A	288	22.649	29.209	49.499	1.00	26.38	N
ATOM	2199	CA	THR	A	288	22.789	28.314	50.649	1.00	28.03	C



ATOM	2200	C	THR	A	288	24.099	28.578	51.384	1.00	27.91	C
ATOM	2201	O	THR	A	288	25.026	29.171	50.830	1.00	27.85	O
ATOM	2202	CB	THR	A	288	22.809	26.817	50.223	1.00	28.01	C
ATOM	2203	CG1	THR	A	288	24.014	26.552	49.492	1.00	29.51	O
ATOM	2204	CG2	THR	A	288	21.619	26.476	49.346	1.00	27.99	C
ATOM	2205	N	PRO	A	289	24.184	28.152	52.654	1.00	28.34	N
ATOM	2206	CA	PRO	A	289	25.411	28.354	53.429	1.00	28.59	C
ATOM	2207	C	PRO	A	289	26.337	27.198	53.075	1.00	29.01	C
ATOM	2208	O	PRO	A	289	26.293	26.141	53.696	1.00	30.14	O
ATOM	2209	CB	PRO	A	289	24.913	28.301	54.865	1.00	28.16	C
ATOM	2210	CG	PRO	A	289	23.822	27.280	54.786	1.00	27.59	C
ATOM	2211	CD	PRO	A	289	23.093	27.659	53.516	1.00	27.76	C
ATOM	2212	N	ASP	A	290	27.165	27.402	52.059	1.00	31.55	N
ATOM	2213	CA	ASP	A	290	28.070	26.358	51.587	1.00	32.31	C
ATOM	2214	C	ASP	A	290	29.529	26.797	51.602	1.00	31.21	C
ATOM	2215	O	ASP	A	290	29.917	27.683	50.842	1.00	32.13	O
ATOM	2216	CB	ASP	A	290	27.672	25.962	50.164	1.00	34.30	C
ATOM	2217	CG	ASP	A	290	28.352	24.692	49.700	1.00	36.12	C
ATOM	2218	OD1	ASP	A	290	29.603	24.628	49.723	1.00	35.60	O
ATOM	2219	OD2	ASP	A	290	27.622	23.758	49.308	1.00	36.06	O
ATOM	2220	N	LEU	A	291	30.333	26.161	52.451	1.00	30.99	N
ATOM	2221	CA	LEU	A	291	31.752	26.487	52.574	1.00	30.02	C
ATOM	2222	C	LEU	A	291	32.577	26.180	51.327	1.00	30.61	C
ATOM	2223	O	LEU	A	291	33.549	26.879	51.030	1.00	28.62	O
ATOM	2224	CB	LEU	A	291	32.350	25.758	53.776	1.00	29.17	C
ATOM	2225	CG	LEU	A	291	31.861	26.270	55.130	1.00	29.18	C
ATOM	2226	CD1	LEU	A	291	32.440	25.415	56.239	1.00	29.37	C
ATOM	2227	CD2	LEU	A	291	32.273	27.728	55.300	1.00	28.61	C
ATOM	2228	N	GLU	A	292	32.188	25.136	50.599	1.00	32.20	N
ATOM	2229	CA	GLU	A	292	32.902	24.751	49.389	1.00	33.79	C
ATOM	2230	C	GLU	A	292	32.669	25.795	48.299	1.00	33.01	C
ATOM	2231	O	GLU	A	292	33.609	26.234	47.635	1.00	32.79	O
ATOM	2232	CB	GLU	A	292	32.431	23.378	48.902	1.00	36.55	C
ATOM	2233	CG	GLU	A	292	33.570	22.414	48.600	1.00	42.06	C
ATOM	2234	CD	GLU	A	292	34.652	23.035	47.726	1.00	46.33	C
ATOM	2235	OE1	GLU	A	292	34.359	23.409	46.568	1.00	49.00	O
ATOM	2236	OE2	GLU	A	292	35.801	23.153	48.202	1.00	47.96	O
ATOM	2237	N	ALA	A	293	31.414	26.191	48.117	1.00	31.42	N
ATOM	2238	CA	ALA	A	293	31.090	27.195	47.116	1.00	31.04	C
ATOM	2239	C	ALA	A	293	31.853	28.467	47.457	1.00	30.14	C
ATOM	2240	O	ALA	A	293	32.382	29.136	46.576	1.00	31.19	O
ATOM	2241	CB	ALA	A	293	29.589	27.463	47.101	1.00	31.42	C
ATOM	2242	N	ALA	A	294	31.925	28.787	48.746	1.00	29.74	N
ATOM	2243	CA	ALA	A	294	32.634	29.983	49.191	1.00	29.71	C
ATOM	2244	C	ALA	A	294	34.119	29.892	48.844	1.00	29.73	C
ATOM	2245	O	ALA	A	294	34.731	30.872	48.406	1.00	28.67	O
ATOM	2246	CB	ALA	A	294	32.455	30.167	50.696	1.00	29.49	C
ATOM	2247	N	ARG	A	295	34.698	28.713	49.053	1.00	30.90	N
ATOM	2248	CA	ARG	A	295	36.109	28.495	48.747	1.00	32.95	C
ATOM	2249	C	ARG	A	295	36.309	28.785	47.266	1.00	33.27	C
ATOM	2250	O	ARG	A	295	37.170	29.577	46.871	1.00	34.29	O
ATOM	2251	CB	ARG	A	295	36.498	27.042	49.028	1.00	34.60	C
ATOM	2252	CG	ARG	A	295	37.956	26.736	48.739	1.00	39.92	C
ATOM	2253	CD	ARG	A	295	38.165	25.278	48.354	1.00	44.25	C
ATOM	2254	NE	ARG	A	295	37.749	24.346	49.399	1.00	49.94	N
ATOM	2255	CZ	ARG	A	295	38.301	24.274	50.607	1.00	52.64	C
ATOM	2256	NH1	ARG	A	295	39.301	25.086	50.934	1.00	54.24	N
ATOM	2257	NH2	ARG	A	295	37.859	23.382	51.486	1.00	52.63	N
ATOM	2258	N	GLN	A	296	35.481	28.138	46.456	1.00	33.35	N
ATOM	2259	CA	GLN	A	296	35.526	28.275	45.010	1.00	32.69	C
ATOM	2260	C	GLN	A	296	35.586	29.738	44.583	1.00	31.64	C
ATOM	2261	O	GLN	A	296	36.425	30.128	43.767	1.00	29.91	O
ATOM	2262	CB	GLN	A	296	34.293	27.605	44.415	1.00	33.88	C
ATOM	2263	CG	GLN	A	296	34.443	27.181	42.982	1.00	39.85	C
ATOM	2264	CD	GLN	A	296	33.291	26.311	42.532	1.00	42.65	C
ATOM	2265	OE1	GLN	A	296	32.893	25.382	43.237	1.00	44.40	O
ATOM	2266	NE2	GLN	A	296	32.753	26.599	41.351	1.00	43.60	N
ATOM	2267	N	PHE	A	297	34.687	30.542	45.143	1.00	30.90	N
ATOM	2268	CA	PHE	A	297	34.611	31.968	44.835	1.00	28.99	C
ATOM	2269	C	PHE	A	297	35.863	32.702	45.305	1.00	28.65	C
ATOM	2270	O	PHE	A	297	36.448	33.486	44.564	1.00	28.55	O
ATOM	2271	CB	PHE	A	297	33.374	32.570	45.504	1.00	27.33	C
ATOM	2272	CG	PHE	A	297	33.269	34.061	45.365	1.00	26.72	C
ATOM	2273	CD1	PHE	A	297	33.024	34.643	44.125	1.00	25.61	C
ATOM	2274	CD2	PHE	A	297	33.416	34.887	46.480	1.00	25.30	C
ATOM	2275	CE1	PHE	A	297	32.927	36.023	43.991	1.00	24.14	C
ATOM	2276	CE2	PHE	A	297	33.322	36.272	46.360	1.00	25.22	C
ATOM	2277	CZ	PHE	A	297	33.076	36.841	45.113	1.00	26.42	C
ATOM	2278	N	SER	A	298	36.269	32.438	46.542	1.00	30.35	N
ATOM	2279	CA	SER	A	298	37.445	33.078	47.117	1.00	30.92	C



ATOM	2280	C	SER	A	298	38.735	32.774	46.355	1.00	31.38	C
ATOM	2281	O	SER	A	298	39.481	33.684	45.997	1.00	31.06	O
ATOM	2282	CB	SER	A	298	37.613	32.650	48.577	1.00	30.79	C
ATOM	2283	OG	SER	A	298	38.747	33.276	49.155	1.00	34.38	O
ATOM	2284	N	GLU	A	299	38.996	31.494	46.107	1.00	32.73	N
ATOM	2285	CA	GLU	A	299	40.215	31.099	45.404	1.00	33.99	C
ATOM	2286	C	GLU	A	299	40.280	31.676	44.000	1.00	34.26	C
ATOM	2287	O	GLU	A	299	41.345	32.098	43.547	1.00	35.39	O
ATOM	2288	CB	GLU	A	299	40.329	29.572	45.351	1.00	33.18	C
ATOM	2289	CG	GLU	A	299	40.244	28.920	46.726	1.00	36.68	C
ATOM	2290	CD	GLU	A	299	40.659	27.451	46.744	1.00	39.12	C
ATOM	2291	OE1	GLU	A	299	40.186	26.669	45.890	1.00	39.04	O
ATOM	2292	OE2	GLU	A	299	41.453	27.077	47.635	1.00	40.26	O
ATOM	2293	N	ALA	A	300	39.139	31.705	43.317	1.00	33.09	N
ATOM	2294	CA	ALA	A	300	39.074	32.231	41.961	1.00	31.92	C
ATOM	2295	C	ALA	A	300	39.407	33.714	41.946	1.00	33.60	C
ATOM	2296	O	ALA	A	300	40.186	34.181	41.109	1.00	34.21	O
ATOM	2297	CB	ALA	A	300	37.688	32.007	41.381	1.00	32.89	C
ATOM	2298	N	VAL	A	301	38.810	34.452	42.874	1.00	33.23	N
ATOM	2299	CA	VAL	A	301	39.040	35.887	42.968	1.00	33.62	C
ATOM	2300	C	VAL	A	301	40.464	36.216	43.411	1.00	33.14	C
ATOM	2301	O	VAL	A	301	41.117	37.076	42.827	1.00	33.11	O
ATOM	2302	CB	VAL	A	301	38.052	36.543	43.957	1.00	33.31	C
ATOM	2303	CG1	VAL	A	301	38.404	38.012	44.151	1.00	32.25	C
ATOM	2304	CG2	VAL	A	301	36.630	36.401	43.437	1.00	33.74	C
ATOM	2305	N	LYS	A	302	40.942	35.528	44.441	1.00	34.67	N
ATOM	2306	CA	LYS	A	302	42.288	35.774	44.958	1.00	37.26	C
ATOM	2307	C	LYS	A	302	43.390	35.377	43.977	1.00	37.36	C
ATOM	2308	O	LYS	A	302	44.513	35.872	44.069	1.00	37.62	O
ATOM	2309	CB	LYS	A	302	42.478	35.055	46.299	1.00	36.69	C
ATOM	2310	CG	LYS	A	302	41.737	35.733	47.447	1.00	38.12	C
ATOM	2311	CD	LYS	A	302	41.935	35.010	48.768	1.00	37.52	C
ATOM	2312	CE	LYS	A	302	41.375	35.827	49.918	1.00	37.74	C
ATOM	2313	NZ	LYS	A	302	42.038	37.159	50.006	1.00	36.60	N
ATOM	2314	N	ALA	A	303	43.062	34.494	43.037	1.00	38.06	N
ATOM	2315	CA	ALA	A	303	44.024	34.057	42.033	1.00	38.45	C
ATOM	2316	C	ALA	A	303	44.582	35.277	41.299	1.00	39.72	C
ATOM	2317	O	ALA	A	303	45.764	35.317	40.961	1.00	40.48	O
ATOM	2318	CB	ALA	A	303	43.362	33.107	41.053	1.00	37.53	C
ATOM	2319	N	GLU	A	304	43.731	36.276	41.065	1.00	40.39	N
ATOM	2320	CA	GLU	A	304	44.151	37.502	40.388	1.00	39.72	C
ATOM	2321	C	GLU	A	304	44.372	38.646	41.373	1.00	38.73	C
ATOM	2322	O	GLU	A	304	45.207	39.528	41.142	1.00	36.97	O
ATOM	2323	CB	GLU	A	304	43.117	37.918	39.330	1.00	41.81	C
ATOM	2324	CG	GLU	A	304	43.334	37.255	37.968	1.00	45.39	C
ATOM	2325	CD	GLU	A	304	42.262	37.609	36.943	1.00	48.34	C
ATOM	2326	OE1	GLU	A	304	42.030	38.817	36.699	1.00	46.96	O
ATOM	2327	OE2	GLU	A	304	41.657	36.671	36.374	1.00	49.15	O
ATOM	2328	N	TYR	A	305	43.628	38.620	42.476	1.00	37.35	N
ATOM	2329	CA	TYR	A	305	43.731	39.650	43.506	1.00	36.45	C
ATOM	2330	C	TYR	A	305	43.976	39.017	44.875	1.00	36.72	C
ATOM	2331	O	TYR	A	305	43.071	38.911	45.697	1.00	37.31	O
ATOM	2332	CB	TYR	A	305	42.452	40.480	43.516	1.00	35.44	C
ATOM	2333	CG	TYR	A	305	42.231	41.231	42.220	1.00	34.85	C
ATOM	2334	CD1	TYR	A	305	42.825	42.475	42.002	1.00	34.43	C
ATOM	2335	CD2	TYR	A	305	41.464	40.678	41.194	1.00	33.76	C
ATOM	2336	CE1	TYR	A	305	42.661	43.150	40.791	1.00	34.81	C
ATOM	2337	CE2	TYR	A	305	41.296	41.345	39.977	1.00	33.36	C
ATOM	2338	CZ	TYR	A	305	41.899	42.578	39.786	1.00	34.10	C
ATOM	2339	OH	TYR	A	305	41.754	43.235	38.587	1.00	34.64	O
ATOM	2340	N	PRO	A	306	45.223	38.590	45.130	1.00	37.24	N
ATOM	2341	CA	PRO	A	306	45.660	37.953	46.373	1.00	36.79	C
ATOM	2342	C	PRO	A	306	45.256	38.651	47.665	1.00	36.29	C
ATOM	2343	O	PRO	A	306	44.876	37.987	48.628	1.00	36.30	O
ATOM	2344	CB	PRO	A	306	47.176	37.888	46.208	1.00	36.88	C
ATOM	2345	CG	PRO	A	306	47.328	37.690	44.744	1.00	38.05	C
ATOM	2346	CD	PRO	A	306	46.357	38.709	44.195	1.00	37.76	C
ATOM	2347	N	ASP	A	307	45.342	39.980	47.687	1.00	35.91	N
ATOM	2348	CA	ASP	A	307	45.004	40.745	48.884	1.00	34.49	C
ATOM	2349	C	ASP	A	307	43.552	41.207	48.973	1.00	34.09	C
ATOM	2350	O	ASP	A	307	43.186	41.913	49.918	1.00	34.31	O
ATOM	2351	CB	ASP	A	307	45.910	41.975	49.005	1.00	36.56	C
ATOM	2352	CG	ASP	A	307	47.377	41.614	49.199	1.00	39.46	C
ATOM	2353	OD1	ASP	A	307	47.662	40.627	49.911	1.00	39.81	O
ATOM	2354	OD2	ASP	A	307	48.247	42.332	48.654	1.00	41.11	O
ATOM	2355	N	GLN	A	308	42.725	40.825	48.006	1.00	30.88	N
ATOM	2356	CA	GLN	A	308	41.326	41.245	48.024	1.00	30.68	C
ATOM	2357	C	GLN	A	308	40.551	40.587	49.159	1.00	28.64	C
ATOM	2358	O	GLN	A	308	40.427	39.365	49.207	1.00	28.99	O
ATOM	2359	CB	GLN	A	308	40.654	40.922	46.684	1.00	29.31	C



ATOM	2360	CG	GLN	A	308	39.191	41.345	46.586	1.00	28.81	C
ATOM	2361	CD	GLN	A	308	38.981	42.845	46.790	1.00	28.18	C
ATOM	2362	OE1	GLN	A	308	38.329	43.266	47.747	1.00	28.18	O
ATOM	2363	NE2	GLN	A	308	39.531	43.652	45.892	1.00	23.62	N
ATOM	2364	N	MET	A	309	40.041	41.403	50.078	1.00	27.16	N
ATOM	2365	CA	MET	A	309	39.261	40.886	51.201	1.00	27.79	C
ATOM	2366	C	MET	A	309	37.824	40.659	50.752	1.00	25.99	C
ATOM	2367	O	MET	A	309	37.313	41.386	49.904	1.00	24.54	O
ATOM	2368	CB	MET	A	309	39.278	41.870	52.373	1.00	30.20	C
ATOM	2369	CG	MET	A	309	40.656	42.109	52.967	1.00	34.90	C
ATOM	2370	SD	MET	A	309	40.578	42.939	54.565	1.00	39.08	S
ATOM	2371	CE	MET	A	309	40.365	44.622	54.050	1.00	37.40	C
ATOM	2372	N	LEU	A	310	37.181	39.653	51.333	1.00	25.83	N
ATOM	2373	CA	LEU	A	310	35.805	39.301	50.995	1.00	23.90	C
ATOM	2374	C	LEU	A	310	34.857	39.436	52.190	1.00	23.79	C
ATOM	2375	O	LEU	A	310	35.291	39.468	53.337	1.00	23.23	O
ATOM	2376	CB	LEU	A	310	35.762	37.859	50.494	1.00	23.79	C
ATOM	2377	CG	LEU	A	310	36.830	37.494	49.465	1.00	25.42	C
ATOM	2378	CD1	LEU	A	310	36.746	36.016	49.138	1.00	23.89	C
ATOM	2379	CD2	LEU	A	310	36.638	38.334	48.219	1.00	26.10	C
ATOM	2380	N	ALA	A	311	33.558	39.504	51.911	1.00	22.49	N
ATOM	2381	CA	ALA	A	311	32.559	39.614	52.964	1.00	21.71	C
ATOM	2382	C	ALA	A	311	31.505	38.552	52.716	1.00	21.46	C
ATOM	2383	O	ALA	A	311	31.167	38.260	51.566	1.00	20.46	O
ATOM	2384	CB	ALA	A	311	31.926	40.997	52.962	1.00	21.11	C
ATOM	2385	N	TYR	A	312	30.984	37.975	53.793	1.00	20.31	N
ATOM	2386	CA	TYR	A	312	29.993	36.927	53.661	1.00	20.05	C
ATOM	2387	C	TYR	A	312	28.746	37.154	54.509	1.00	20.80	C
ATOM	2388	O	TYR	A	312	28.824	37.466	55.699	1.00	21.93	O
ATOM	2389	CB	TYR	A	312	30.637	35.584	54.004	1.00	18.89	C
ATOM	2390	CG	TYR	A	312	29.813	34.388	53.610	1.00	17.55	C
ATOM	2391	CD1	TYR	A	312	28.714	33.992	54.372	1.00	17.30	C
ATOM	2392	CD2	TYR	A	312	30.120	33.659	52.462	1.00	16.97	C
ATOM	2393	CE1	TYR	A	312	27.944	32.900	54.002	1.00	16.37	C
ATOM	2394	CE2	TYR	A	312	29.352	32.561	52.079	1.00	17.89	C
ATOM	2395	CZ	TYR	A	312	28.267	32.190	52.854	1.00	17.35	C
ATOM	2396	OH	TYR	A	312	27.495	31.122	52.476	1.00	18.37	O
ATOM	2397	N	ASN	A	313	27.595	36.985	53.873	1.00	21.18	N
ATOM	2398	CA	ASN	A	313	26.303	37.154	54.519	1.00	20.81	C
ATOM	2399	C	ASN	A	313	25.795	35.831	55.084	1.00	20.81	C
ATOM	2400	O	ASN	A	313	25.335	34.966	54.339	1.00	19.29	O
ATOM	2401	CB	ASN	A	313	25.296	37.726	53.502	1.00	21.24	C
ATOM	2402	CG	ASN	A	313	23.852	37.669	53.992	1.00	22.92	C
ATOM	2403	OD1	ASN	A	313	23.590	37.478	55.178	1.00	23.95	O
ATOM	2404	ND2	ASN	A	313	22.907	37.849	53.070	1.00	22.92	N
ATOM	2405	N	CYS	A	314	25.911	35.664	56.399	1.00	20.85	N
ATOM	2406	CA	CYS	A	314	25.417	34.456	57.056	1.00	20.93	C
ATOM	2407	C	CYS	A	314	23.941	34.757	57.245	1.00	20.79	C
ATOM	2408	O	CYS	A	314	23.488	35.102	58.338	1.00	20.36	O
ATOM	2409	CB	CYS	A	314	26.114	34.257	58.402	1.00	21.22	C
ATOM	2410	SG	CYS	A	314	27.898	34.012	58.238	1.00	21.53	S
ATOM	2411	N	SER	A	315	23.210	34.626	56.142	1.00	19.83	N
ATOM	2412	CA	SER	A	315	21.793	34.935	56.065	1.00	19.77	C
ATOM	2413	C	SER	A	315	20.756	34.064	56.759	1.00	19.57	C
ATOM	2414	O	SER	A	315	20.791	32.839	56.668	1.00	19.56	O
ATOM	2415	CB	SER	A	315	21.406	35.055	54.591	1.00	18.64	C
ATOM	2416	OG	SER	A	315	20.003	35.159	54.443	1.00	15.56	O
ATOM	2417	N	PRO	A	316	19.804	34.704	57.462	1.00	20.79	N
ATOM	2418	CA	PRO	A	316	18.724	34.004	58.172	1.00	20.18	C
ATOM	2419	C	PRO	A	316	17.708	33.518	57.137	1.00	21.06	C
ATOM	2420	O	PRO	A	316	16.702	32.885	57.474	1.00	22.18	O
ATOM	2421	CB	PRO	A	316	18.138	35.084	59.078	1.00	18.31	C
ATOM	2422	CG	PRO	A	316	19.287	35.993	59.324	1.00	21.39	C
ATOM	2423	CD	PRO	A	316	19.915	36.092	57.943	1.00	20.35	C
ATOM	2424	N	SER	A	317	17.962	33.853	55.874	1.00	21.97	N
ATOM	2425	CA	SER	A	317	17.090	33.422	54.786	1.00	23.08	C
ATOM	2426	C	SER	A	317	17.403	31.970	54.464	1.00	23.60	C
ATOM	2427	O	SER	A	317	16.754	31.359	53.616	1.00	25.05	O
ATOM	2428	CB	SER	A	317	17.291	34.281	53.538	1.00	21.48	C
ATOM	2429	OG	SER	A	317	16.663	35.539	53.679	1.00	19.10	O
ATOM	2430	N	PHE	A	318	18.418	31.434	55.133	1.00	23.53	N
ATOM	2431	CA	PHE	A	318	18.797	30.037	54.964	1.00	24.34	C
ATOM	2432	C	PHE	A	318	18.212	29.267	56.139	1.00	25.44	C
ATOM	2433	O	PHE	A	318	18.166	29.778	57.260	1.00	25.02	O
ATOM	2434	CB	PHE	A	318	20.315	29.833	55.028	1.00	23.27	C
ATOM	2435	CG	PHE	A	318	21.097	30.590	53.998	1.00	23.62	C
ATOM	2436	CD1	PHE	A	318	20.627	30.729	52.694	1.00	22.86	C
ATOM	2437	CD2	PHE	A	318	22.358	31.098	54.316	1.00	24.04	C
ATOM	2438	CE1	PHE	A	318	21.402	31.360	51.720	1.00	21.56	C
ATOM	2439	CE2	PHE	A	318	23.141	31.729	53.351	1.00	21.88	C



ATOM	2440	CZ	PHE	A	318	22.661	31.859	52.049	1.00	23.49	C
ATOM	2441	N	ASN	A	319	17.750	28.049	55.881	1.00	25.71	N
ATOM	2442	CA	ASN	A	319	17.254	27.198	56.949	1.00	27.22	C
ATOM	2443	C	ASN	A	319	18.539	26.448	57.272	1.00	27.20	C
ATOM	2444	O	ASN	A	319	18.858	25.447	56.639	1.00	28.78	O
ATOM	2445	CB	ASN	A	319	16.181	26.239	56.435	1.00	27.44	C
ATOM	2446	CG	ASN	A	319	15.679	25.302	57.510	1.00	27.71	C
ATOM	2447	OD1	ASN	A	319	14.593	24.736	57.391	1.00	28.70	O
ATOM	2448	ND2	ASN	A	319	16.470	25.125	58.564	1.00	25.31	N
ATOM	2449	N	TRP	A	320	19.282	26.961	58.243	1.00	27.30	N
ATOM	2450	CA	TRP	A	320	20.573	26.400	58.611	1.00	28.80	C
ATOM	2451	C	TRP	A	320	20.705	24.910	58.908	1.00	30.64	C
ATOM	2452	O	TRP	A	320	21.510	24.237	58.270	1.00	31.14	O
ATOM	2453	CB	TRP	A	320	21.182	27.225	59.749	1.00	27.17	C
ATOM	2454	CG	TRP	A	320	21.594	28.585	59.269	1.00	27.16	C
ATOM	2455	CD1	TRP	A	320	20.779	29.657	59.043	1.00	27.00	C
ATOM	2456	CD2	TRP	A	320	22.903	28.983	58.840	1.00	27.24	C
ATOM	2457	NE1	TRP	A	320	21.494	30.695	58.494	1.00	25.57	N
ATOM	2458	CE2	TRP	A	320	22.801	30.309	58.357	1.00	27.67	C
ATOM	2459	CE3	TRP	A	320	24.152	28.346	58.810	1.00	26.98	C
ATOM	2460	CZ2	TRP	A	320	23.901	31.013	57.850	1.00	28.38	C
ATOM	2461	CZ3	TRP	A	320	25.248	29.045	58.304	1.00	28.90	C
ATOM	2462	CH2	TRP	A	320	25.112	30.367	57.831	1.00	28.91	C
ATOM	2463	N	LYS	A	321	19.940	24.383	59.857	1.00	31.89	N
ATOM	2464	CA	LYS	A	321	20.060	22.963	60.167	1.00	33.49	C
ATOM	2465	C	LYS	A	321	19.526	22.062	59.055	1.00	34.44	C
ATOM	2466	O	LYS	A	321	19.656	20.846	59.112	1.00	34.51	O
ATOM	2467	CB	LYS	A	321	19.377	22.648	61.500	1.00	32.36	C
ATOM	2468	CG	LYS	A	321	20.135	23.207	62.694	1.00	33.10	C
ATOM	2469	CD	LYS	A	321	19.536	22.770	64.022	1.00	35.63	C
ATOM	2470	CE	LYS	A	321	19.545	21.254	64.163	1.00	36.29	C
ATOM	2471	NZ	LYS	A	321	20.907	20.699	63.942	1.00	36.70	N
ATOM	2472	N	LYS	A	322	18.930	22.658	58.034	1.00	36.42	N
ATOM	2473	CA	LYS	A	322	18.420	21.871	56.924	1.00	36.77	C
ATOM	2474	C	LYS	A	322	19.563	21.615	55.955	1.00	35.92	C
ATOM	2475	O	LYS	A	322	19.543	20.653	55.196	1.00	36.72	O
ATOM	2476	CB	LYS	A	322	17.291	22.613	56.205	1.00	38.50	C
ATOM	2477	CG	LYS	A	322	16.828	21.923	54.930	1.00	40.14	C
ATOM	2478	CD	LYS	A	322	15.715	22.689	54.236	1.00	43.73	C
ATOM	2479	CE	LYS	A	322	15.233	21.938	53.004	1.00	45.83	C
ATOM	2480	NZ	LYS	A	322	14.082	22.597	52.331	1.00	47.26	N
ATOM	2481	N	HIS	A	323	20.570	22.478	55.996	1.00	36.22	N
ATOM	2482	CA	HIS	A	323	21.720	22.356	55.111	1.00	37.16	C
ATOM	2483	C	HIS	A	323	22.999	21.873	55.782	1.00	36.71	C
ATOM	2484	O	HIS	A	323	23.837	21.239	55.139	1.00	36.50	O
ATOM	2485	CB	HIS	A	323	22.017	23.700	54.448	1.00	39.79	C
ATOM	2486	CG	HIS	A	323	20.963	24.149	53.489	1.00	43.55	C
ATOM	2487	ND1	HIS	A	323	20.816	23.598	52.234	1.00	44.42	N
ATOM	2488	CD2	HIS	A	323	19.994	25.088	53.604	1.00	45.12	C
ATOM	2489	CE1	HIS	A	323	19.802	24.178	51.618	1.00	45.78	C
ATOM	2490	NE2	HIS	A	323	19.286	25.086	52.428	1.00	46.41	N
ATOM	2491	N	LEU	A	324	23.160	22.168	57.067	1.00	34.60	N
ATOM	2492	CA	LEU	A	324	24.388	21.788	57.751	1.00	33.21	C
ATOM	2493	C	LEU	A	324	24.186	21.089	59.088	1.00	33.65	C
ATOM	2494	O	LEU	A	324	23.128	21.209	59.710	1.00	32.91	O
ATOM	2495	CB	LEU	A	324	25.243	23.038	57.966	1.00	31.16	C
ATOM	2496	CG	LEU	A	324	25.456	23.940	56.748	1.00	30.59	C
ATOM	2497	CD1	LEU	A	324	26.150	25.223	57.177	1.00	29.78	C
ATOM	2498	CD2	LEU	A	324	26.280	23.208	55.701	1.00	30.10	C
ATOM	2499	N	ASP	A	325	25.209	20.349	59.514	1.00	34.02	N
ATOM	2500	CA	ASP	A	325	25.173	19.671	60.803	1.00	33.96	C
ATOM	2501	C	ASP	A	325	25.717	20.685	61.807	1.00	33.37	C
ATOM	2502	O	ASP	A	325	26.317	21.687	61.415	1.00	32.07	O
ATOM	2503	CB	ASP	A	325	26.034	18.395	60.803	1.00	33.54	C
ATOM	2504	CG	ASP	A	325	27.477	18.643	60.381	1.00	36.19	C
ATOM	2505	OD1	ASP	A	325	28.044	19.702	60.714	1.00	38.64	O
ATOM	2506	OD2	ASP	A	325	28.060	17.757	59.724	1.00	39.85	O
ATOM	2507	N	ASP	A	326	25.513	20.436	63.094	1.00	33.61	N
ATOM	2508	CA	ASP	A	326	25.975	21.379	64.100	1.00	34.32	C
ATOM	2509	C	ASP	A	326	27.476	21.592	64.085	1.00	33.71	C
ATOM	2510	O	ASP	A	326	27.956	22.674	64.418	1.00	34.76	O
ATOM	2511	CB	ASP	A	326	25.501	20.942	65.484	1.00	34.49	C
ATOM	2512	CG	ASP	A	326	23.988	20.897	65.579	1.00	35.10	C
ATOM	2513	OD1	ASP	A	326	23.333	21.771	64.973	1.00	35.11	O
ATOM	2514	OD2	ASP	A	326	23.449	20.001	66.255	1.00	37.01	O
ATOM	2515	N	ALA	A	327	28.222	20.574	63.678	1.00	33.09	N
ATOM	2516	CA	ALA	A	327	29.672	20.698	63.629	1.00	32.60	C
ATOM	2517	C	ALA	A	327	30.067	21.766	62.608	1.00	31.72	C
ATOM	2518	O	ALA	A	327	30.900	22.629	62.884	1.00	32.60	O
ATOM	2519	CB	ALA	A	327	30.297	19.361	63.263	1.00	31.49	C



ATOM	2520	N	THR	A	328	29.455	21.705	61.429	1.00	29.93	N
ATOM	2521	CA	THR	A	328	29.743	22.659	60.363	1.00	30.52	C
ATOM	2522	C	THR	A	328	29.283	24.069	60.735	1.00	29.19	C
ATOM	2523	O	THR	A	328	29.959	25.055	60.448	1.00	29.09	O
ATOM	2524	CB	THR	A	328	29.060	22.235	59.051	1.00	31.34	C
ATOM	2525	OG1	THR	A	328	29.451	20.893	58.722	1.00	31.60	O
ATOM	2526	CG2	THR	A	328	29.461	23.165	57.921	1.00	30.89	C
ATOM	2527	N	ILE	A	329	28.123	24.148	61.371	1.00	28.10	N
ATOM	2528	CA	ILE	A	329	27.559	25.409	61.811	1.00	26.92	C
ATOM	2529	C	ILE	A	329	28.521	26.072	62.790	1.00	27.16	C
ATOM	2530	O	ILE	A	329	28.816	27.260	62.678	1.00	26.98	O
ATOM	2531	CB	ILE	A	329	26.196	25.170	62.503	1.00	26.82	C
ATOM	2532	CG1	ILE	A	329	25.182	24.675	61.468	1.00	25.52	C
ATOM	2533	CG2	ILE	A	329	25.715	26.441	63.202	1.00	24.23	C
ATOM	2534	CD1	ILE	A	329	23.835	24.288	62.044	1.00	26.59	C
ATOM	2535	N	ALA	A	330	29.017	25.289	63.744	1.00	28.11	N
ATOM	2536	CA	ALA	A	330	29.940	25.792	64.760	1.00	28.13	C
ATOM	2537	C	ALA	A	330	31.238	26.362	64.190	1.00	27.77	C
ATOM	2538	O	ALA	A	330	31.758	27.352	64.698	1.00	26.73	O
ATOM	2539	CB	ALA	A	330	30.261	24.685	65.755	1.00	27.84	C
ATOM	2540	N	LYS	A	331	31.761	25.736	63.139	1.00	27.51	N
ATOM	2541	CA	LYS	A	331	33.010	26.195	62.531	1.00	28.55	C
ATOM	2542	C	LYS	A	331	32.792	27.058	61.287	1.00	26.94	C
ATOM	2543	O	LYS	A	331	33.750	27.531	60.679	1.00	26.34	O
ATOM	2544	CB	LYS	A	331	33.864	24.991	62.135	1.00	30.26	C
ATOM	2545	CG	LYS	A	331	33.272	24.212	60.968	1.00	33.14	C
ATOM	2546	CD	LYS	A	331	34.158	23.065	60.519	1.00	35.26	C
ATOM	2547	CE	LYS	A	331	33.546	22.374	59.304	1.00	38.10	C
ATOM	2548	NZ	LYS	A	331	34.318	21.176	58.867	1.00	40.08	N
ATOM	2549	N	PHE	A	332	31.537	27.265	60.908	1.00	26.79	N
ATOM	2550	CA	PHE	A	332	31.234	28.035	59.705	1.00	26.37	C
ATOM	2551	C	PHE	A	332	32.006	29.346	59.543	1.00	25.41	C
ATOM	2552	O	PHE	A	332	32.750	29.508	58.580	1.00	26.86	O
ATOM	2553	CB	PHE	A	332	29.730	28.309	59.619	1.00	27.82	C
ATOM	2554	CG	PHE	A	332	29.262	28.665	58.233	1.00	28.85	C
ATOM	2555	CD1	PHE	A	332	29.158	27.686	57.247	1.00	29.69	C
ATOM	2556	CD2	PHE	A	332	28.962	29.983	57.900	1.00	27.56	C
ATOM	2557	CE1	PHE	A	332	28.764	28.018	55.947	1.00	28.97	C
ATOM	2558	CE2	PHE	A	332	28.568	30.324	56.604	1.00	27.06	C
ATOM	2559	CZ	PHE	A	332	28.470	29.343	55.627	1.00	26.68	C
ATOM	2560	N	GLN	A	333	31.843	30.280	60.475	1.00	26.22	N
ATOM	2561	CA	GLN	A	333	32.535	31.562	60.364	1.00	26.46	C
ATOM	2562	C	GLN	A	333	34.059	31.464	60.443	1.00	27.89	C
ATOM	2563	O	GLN	A	333	34.768	32.221	59.773	1.00	26.71	O
ATOM	2564	CB	GLN	A	333	32.041	32.550	61.426	1.00	25.85	C
ATOM	2565	CG	GLN	A	333	30.570	32.936	61.309	1.00	25.97	C
ATOM	2566	CD	GLN	A	333	30.282	34.316	61.882	1.00	26.69	C
ATOM	2567	OE1	GLN	A	333	30.949	34.767	62.813	1.00	24.16	O
ATOM	2568	NE2	GLN	A	333	29.276	34.989	61.330	1.00	25.04	N
ATOM	2569	N	LYS	A	334	34.569	30.547	61.260	1.00	29.15	N
ATOM	2570	CA	LYS	A	334	36.015	30.405	61.390	1.00	30.54	C
ATOM	2571	C	LYS	A	334	36.603	29.904	60.072	1.00	29.55	C
ATOM	2572	O	LYS	A	334	37.662	30.361	59.643	1.00	29.01	O
ATOM	2573	CB	LYS	A	334	36.362	29.451	62.539	1.00	31.94	C
ATOM	2574	CG	LYS	A	334	37.853	29.392	62.851	1.00	36.22	C
ATOM	2575	CD	LYS	A	334	38.132	28.630	64.141	1.00	39.11	C
ATOM	2576	CE	LYS	A	334	39.632	28.435	64.364	1.00	40.83	C
ATOM	2577	NZ	LYS	A	334	40.377	29.728	64.405	1.00	41.25	N
ATOM	2578	N	GLU	A	335	35.899	28.979	59.427	1.00	29.42	N
ATOM	2579	CA	GLU	A	335	36.335	28.430	58.145	1.00	30.43	C
ATOM	2580	C	GLU	A	335	36.341	29.510	57.065	1.00	29.84	C
ATOM	2581	O	GLU	A	335	37.263	29.586	56.250	1.00	31.11	O
ATOM	2582	CB	GLU	A	335	35.407	27.294	57.721	1.00	33.81	C
ATOM	2583	CG	GLU	A	335	35.590	26.019	58.521	1.00	38.71	C
ATOM	2584	CD	GLU	A	335	36.949	25.394	58.281	1.00	42.69	C
ATOM	2585	OE1	GLU	A	335	37.231	25.039	57.117	1.00	44.77	O
ATOM	2586	OE2	GLU	A	335	37.735	25.262	59.246	1.00	44.18	O
ATOM	2587	N	LEU	A	336	35.302	30.337	57.056	1.00	28.30	N
ATOM	2588	CA	LEU	A	336	35.199	31.418	56.087	1.00	27.55	C
ATOM	2589	C	LEU	A	336	36.343	32.406	56.257	1.00	27.08	C
ATOM	2590	O	LEU	A	336	36.929	32.864	55.275	1.00	26.77	O
ATOM	2591	CB	LEU	A	336	33.865	32.161	56.247	1.00	26.10	C
ATOM	2592	CG	LEU	A	336	32.618	31.425	55.772	1.00	23.92	C
ATOM	2593	CD1	LEU	A	336	31.375	32.236	56.104	1.00	24.04	C
ATOM	2594	CD2	LEU	A	336	32.732	31.188	54.274	1.00	22.90	C
ATOM	2595	N	ALA	A	337	36.652	32.740	57.506	1.00	27.07	N
ATOM	2596	CA	ALA	A	337	37.720	33.691	57.781	1.00	27.74	C
ATOM	2597	C	ALA	A	337	39.031	33.159	57.229	1.00	28.84	C
ATOM	2598	O	ALA	A	337	39.830	33.905	56.662	1.00	28.05	O
ATOM	2599	CB	ALA	A	337	37.835	33.934	59.279	1.00	27.26	C



ATOM	2600	N	ALA	A	338	39.240	31.856	57.385	1.00	29.84	N
ATOM	2601	CA	ALA	A	338	40.459	31.224	56.905	1.00	30.77	C
ATOM	2602	C	ALA	A	338	40.536	31.318	55.389	1.00	31.83	C
ATOM	2603	O	ALA	A	338	41.608	31.160	54.807	1.00	33.02	O
ATOM	2604	CB	ALA	A	338	40.503	29.764	57.347	1.00	30.89	C
ATOM	2605	N	MET	A	339	39.400	31.583	54.747	1.00	30.74	N
ATOM	2606	CA	MET	A	339	39.378	31.691	53.294	1.00	29.13	C
ATOM	2607	C	MET	A	339	39.273	33.125	52.774	1.00	29.78	C
ATOM	2608	O	MET	A	339	38.903	33.350	51.624	1.00	30.58	O
ATOM	2609	CB	MET	A	339	38.254	30.822	52.720	1.00	30.26	C
ATOM	2610	CG	MET	A	339	38.403	29.345	53.095	1.00	30.33	C
ATOM	2611	SD	MET	A	339	37.331	28.195	52.218	1.00	33.92	S
ATOM	2612	CE	MET	A	339	35.743	28.526	53.017	1.00	33.43	C
ATOM	2613	N	GLY	A	340	39.603	34.095	53.624	1.00	28.27	N
ATOM	2614	CA	GLY	A	340	39.571	35.486	53.201	1.00	28.11	C
ATOM	2615	C	GLY	A	340	38.309	36.289	53.466	1.00	27.80	C
ATOM	2616	O	GLY	A	340	38.236	37.465	53.100	1.00	27.57	O
ATOM	2617	N	PHE	A	341	37.309	35.674	54.085	1.00	26.80	N
ATOM	2618	CA	PHE	A	341	36.073	36.390	54.381	1.00	27.42	C
ATOM	2619	C	PHE	A	341	36.227	37.095	55.725	1.00	26.67	C
ATOM	2620	O	PHE	A	341	35.872	36.549	56.773	1.00	26.41	O
ATOM	2621	CB	PHE	A	341	34.896	35.410	54.394	1.00	28.03	C
ATOM	2622	CG	PHE	A	341	34.598	34.810	53.045	1.00	28.72	C
ATOM	2623	CD1	PHE	A	341	33.988	35.571	52.049	1.00	30.11	C
ATOM	2624	CD2	PHE	A	341	34.961	33.500	52.753	1.00	29.36	C
ATOM	2625	CE1	PHE	A	341	33.746	35.038	50.784	1.00	28.32	C
ATOM	2626	CE2	PHE	A	341	34.724	32.958	51.489	1.00	29.41	C
ATOM	2627	CZ	PHE	A	341	34.116	33.729	50.505	1.00	29.55	C
ATOM	2628	N	LYS	A	342	36.760	38.317	55.679	1.00	27.00	N
ATOM	2629	CA	LYS	A	342	37.014	39.106	56.884	1.00	27.09	C
ATOM	2630	C	LYS	A	342	35.833	39.856	57.501	1.00	26.38	C
ATOM	2631	O	LYS	A	342	35.906	40.268	58.658	1.00	26.64	O
ATOM	2632	CB	LYS	A	342	38.175	40.069	56.629	1.00	28.44	C
ATOM	2633	CG	LYS	A	342	39.474	39.353	56.285	1.00	31.41	C
ATOM	2634	CD	LYS	A	342	39.800	38.282	57.326	1.00	33.62	C
ATOM	2635	CE	LYS	A	342	41.046	37.498	56.949	1.00	35.98	C
ATOM	2636	NZ	LYS	A	342	41.303	36.368	57.892	1.00	37.28	N
ATOM	2637	N	PHE	A	343	34.760	40.060	56.741	1.00	24.13	N
ATOM	2638	CA	PHE	A	343	33.582	40.713	57.307	1.00	23.07	C
ATOM	2639	C	PHE	A	343	32.406	39.780	57.114	1.00	21.66	C
ATOM	2640	O	PHE	A	343	31.985	39.521	55.990	1.00	20.02	O
ATOM	2641	CB	PHE	A	343	33.273	42.058	56.645	1.00	21.52	C
ATOM	2642	CG	PHE	A	343	32.155	42.807	57.320	1.00	21.33	C
ATOM	2643	CD1	PHE	A	343	32.300	43.267	58.627	1.00	21.64	C
ATOM	2644	CD2	PHE	A	343	30.944	43.029	56.666	1.00	22.51	C
ATOM	2645	CE1	PHE	A	343	31.264	43.933	59.277	1.00	20.80	C
ATOM	2646	CE2	PHE	A	343	29.895	43.697	57.307	1.00	21.55	C
ATOM	2647	CZ	PHE	A	343	30.057	44.148	58.616	1.00	22.99	C
ATOM	2648	N	GLN	A	344	31.895	39.263	58.224	1.00	21.57	N
ATOM	2649	CA	GLN	A	344	30.773	38.338	58.200	1.00	20.32	C
ATOM	2650	C	GLN	A	344	29.660	38.929	59.038	1.00	19.48	C
ATOM	2651	O	GLN	A	344	29.905	39.515	60.094	1.00	18.19	O
ATOM	2652	CB	GLN	A	344	31.215	36.984	58.750	1.00	21.38	C
ATOM	2653	CG	GLN	A	344	32.456	36.452	58.048	1.00	23.34	C
ATOM	2654	CD	GLN	A	344	32.915	35.124	58.596	1.00	24.52	C
ATOM	2655	OE1	GLN	A	344	34.065	34.736	58.417	1.00	25.96	O
ATOM	2656	NE2	GLN	A	344	32.018	34.416	59.260	1.00	24.94	N
ATOM	2657	N	PHE	A	345	28.427	38.762	58.580	1.00	19.34	N
ATOM	2658	CA	PHE	A	345	27.306	39.356	59.292	1.00	18.91	C
ATOM	2659	C	PHE	A	345	25.979	38.632	59.113	1.00	17.59	C
ATOM	2660	O	PHE	A	345	25.694	38.080	58.054	1.00	18.33	O
ATOM	2661	CB	PHE	A	345	27.152	40.797	58.818	1.00	17.87	C
ATOM	2662	CG	PHE	A	345	27.082	40.928	57.317	1.00	20.67	C
ATOM	2663	CD1	PHE	A	345	28.235	40.805	56.540	1.00	19.05	C
ATOM	2664	CD2	PHE	A	345	25.860	41.127	56.677	1.00	19.21	C
ATOM	2665	CE1	PHE	A	345	28.172	40.875	55.149	1.00	22.94	C
ATOM	2666	CE2	PHE	A	345	25.780	41.199	55.284	1.00	21.27	C
ATOM	2667	CZ	PHE	A	345	26.936	41.073	54.513	1.00	21.25	C
ATOM	2668	N	ILE	A	346	25.172	38.630	60.163	1.00	17.40	N
ATOM	2669	CA	ILE	A	346	23.860	38.015	60.100	1.00	18.15	C
ATOM	2670	C	ILE	A	346	22.910	39.179	59.861	1.00	18.44	C
ATOM	2671	O	ILE	A	346	22.544	39.896	60.791	1.00	19.83	O
ATOM	2672	CB	ILE	A	346	23.504	37.304	61.414	1.00	16.64	C
ATOM	2673	CG1	ILE	A	346	24.460	36.128	61.632	1.00	15.94	C
ATOM	2674	CG2	ILE	A	346	22.061	36.813	61.364	1.00	16.65	C
ATOM	2675	CD1	ILE	A	346	24.199	35.338	62.912	1.00	12.80	C
ATOM	2676	N	THR	A	347	22.540	39.367	58.598	1.00	18.96	N
ATOM	2677	CA	THR	A	347	21.665	40.459	58.174	1.00	18.38	C
ATOM	2678	C	THR	A	347	20.423	40.747	59.009	1.00	18.25	C
ATOM	2679	O	THR	A	347	20.259	41.847	59.533	1.00	17.12	O



ATOM	2680	CB	THR	A	347	21.190	40.255	56.712	1.00	17.85	C
ATOM	2681	OG1	THR	A	347	20.629	38.947	56.575	1.00	17.80	O
ATOM	2682	CG2	THR	A	347	22.349	40.404	55.733	1.00	17.32	C
ATOM	2683	N	LEU	A	348	19.552	39.755	59.140	1.00	20.41	N
ATOM	2684	CA	LEU	A	348	18.290	39.947	59.843	1.00	18.93	C
ATOM	2685	C	LEU	A	348	18.240	39.547	61.313	1.00	19.94	C
ATOM	2686	O	LEU	A	348	17.166	39.227	61.841	1.00	17.98	O
ATOM	2687	CB	LEU	A	348	17.192	39.219	59.069	1.00	18.74	C
ATOM	2688	CG	LEU	A	348	17.292	39.391	57.547	1.00	21.50	C
ATOM	2689	CD1	LEU	A	348	16.098	38.739	56.873	1.00	18.37	C
ATOM	2690	CD2	LEU	A	348	17.370	40.871	57.196	1.00	19.97	C
ATOM	2691	N	ALA	A	349	19.388	39.587	61.982	1.00	19.06	N
ATOM	2692	CA	ALA	A	349	19.445	39.215	63.392	1.00	19.59	C
ATOM	2693	C	ALA	A	349	18.491	40.062	64.244	1.00	17.56	C
ATOM	2694	O	ALA	A	349	17.801	39.540	65.119	1.00	17.59	O
ATOM	2695	CB	ALA	A	349	20.883	39.345	63.914	1.00	19.73	C
ATOM	2696	N	GLY	A	350	18.448	41.364	63.975	1.00	16.46	N
ATOM	2697	CA	GLY	A	350	17.585	42.248	64.738	1.00	16.04	C
ATOM	2698	C	GLY	A	350	16.107	41.956	64.558	1.00	17.45	C
ATOM	2699	O	GLY	A	350	15.344	41.932	65.528	1.00	16.25	O
ATOM	2700	N	PHE	A	351	15.700	41.752	63.310	1.00	16.31	N
ATOM	2701	CA	PHE	A	351	14.309	41.460	62.997	1.00	17.17	C
ATOM	2702	C	PHE	A	351	13.855	40.221	63.752	1.00	16.55	C
ATOM	2703	O	PHE	A	351	12.811	40.215	64.407	1.00	18.07	O
ATOM	2704	CB	PHE	A	351	14.139	41.205	61.492	1.00	15.61	C
ATOM	2705	CG	PHE	A	351	12.763	40.712	61.105	1.00	17.16	C
ATOM	2706	CD1	PHE	A	351	11.735	41.612	60.813	1.00	19.09	C
ATOM	2707	CD2	PHE	A	351	12.495	39.347	61.029	1.00	17.09	C
ATOM	2708	CE1	PHE	A	351	10.457	41.154	60.446	1.00	19.81	C
ATOM	2709	CE2	PHE	A	351	11.227	38.874	60.667	1.00	18.94	C
ATOM	2710	CZ	PHE	A	351	10.204	39.778	60.373	1.00	20.08	C
ATOM	2711	N	HIS	A	352	14.642	39.161	63.657	1.00	16.06	N
ATOM	2712	CA	HIS	A	352	14.269	37.918	64.307	1.00	17.30	C
ATOM	2713	C	HIS	A	352	14.318	37.963	65.821	1.00	16.57	C
ATOM	2714	O	HIS	A	352	13.432	37.433	66.491	1.00	15.74	O
ATOM	2715	CB	HIS	A	352	15.109	36.775	63.735	1.00	15.38	C
ATOM	2716	CG	HIS	A	352	14.700	36.391	62.348	1.00	15.69	C
ATOM	2717	ND1	HIS	A	352	13.537	35.701	62.083	1.00	15.03	N
ATOM	2718	CD2	HIS	A	352	15.258	36.662	61.142	1.00	15.69	C
ATOM	2719	CE1	HIS	A	352	13.395	35.565	60.776	1.00	15.62	C
ATOM	2720	NE2	HIS	A	352	14.427	36.138	60.183	1.00	15.40	N
ATOM	2721	N	ALA	A	353	15.329	38.621	66.370	1.00	17.26	N
ATOM	2722	CA	ALA	A	353	15.428	38.706	67.820	1.00	17.34	C
ATOM	2723	C	ALA	A	353	14.264	39.530	68.356	1.00	17.01	C
ATOM	2724	O	ALA	A	353	13.662	39.180	69.372	1.00	17.56	O
ATOM	2725	CB	ALA	A	353	16.753	39.334	68.222	1.00	15.55	C
ATOM	2726	N	LEU	A	354	13.939	40.615	67.657	1.00	16.30	N
ATOM	2727	CA	LEU	A	354	12.855	41.490	68.078	1.00	17.01	C
ATOM	2728	C	LEU	A	354	11.488	40.828	67.952	1.00	16.67	C
ATOM	2729	O	LEU	A	354	10.707	40.834	68.897	1.00	18.45	O
ATOM	2730	CB	LEU	A	354	12.882	42.801	67.271	1.00	14.21	C
ATOM	2731	CG	LEU	A	354	11.836	43.855	67.665	1.00	16.38	C
ATOM	2732	CD1	LEU	A	354	12.250	45.229	67.135	1.00	13.95	C
ATOM	2733	CD2	LEU	A	354	10.451	43.452	67.127	1.00	13.96	C
ATOM	2734	N	ASN	A	355	11.199	40.269	66.781	1.00	19.24	N
ATOM	2735	CA	ASN	A	355	9.917	39.615	66.534	1.00	18.44	C
ATOM	2736	C	ASN	A	355	9.707	38.395	67.432	1.00	19.80	C
ATOM	2737	O	ASN	A	355	8.642	38.233	68.024	1.00	17.79	O
ATOM	2738	CB	ASN	A	355	9.811	39.207	65.058	1.00	17.47	C
ATOM	2739	CG	ASN	A	355	9.383	40.364	64.156	1.00	19.65	C
ATOM	2740	OD1	ASN	A	355	8.189	40.633	63.994	1.00	17.08	O
ATOM	2741	ND2	ASN	A	355	10.359	41.055	63.570	1.00	16.70	N
ATOM	2742	N	TYR	A	356	10.721	37.542	67.547	1.00	20.23	N
ATOM	2743	CA	TYR	A	356	10.579	36.358	68.387	1.00	21.47	C
ATOM	2744	C	TYR	A	356	10.381	36.652	69.877	1.00	21.07	C
ATOM	2745	O	TYR	A	356	9.474	36.096	70.505	1.00	20.30	O
ATOM	2746	CB	TYR	A	356	11.780	35.414	68.243	1.00	20.43	C
ATOM	2747	CG	TYR	A	356	11.626	34.212	69.140	1.00	23.02	C
ATOM	2748	CD1	TYR	A	356	10.579	33.310	68.944	1.00	25.75	C
ATOM	2749	CD2	TYR	A	356	12.437	34.039	70.258	1.00	24.34	C
ATOM	2750	CE1	TYR	A	356	10.335	32.279	69.842	1.00	25.52	C
ATOM	2751	CE2	TYR	A	356	12.199	33.005	71.167	1.00	24.66	C
ATOM	2752	CZ	TYR	A	356	11.144	32.137	70.950	1.00	25.45	C
ATOM	2753	OH	TYR	A	356	10.869	31.147	71.858	1.00	29.81	O
ATOM	2754	N	SER	A	357	11.231	37.508	70.443	1.00	20.74	N
ATOM	2755	CA	SER	A	357	11.139	37.820	71.866	1.00	20.00	C
ATOM	2756	C	SER	A	357	9.811	38.454	72.247	1.00	20.76	C
ATOM	2757	O	SER	A	357	9.276	38.166	73.323	1.00	21.70	O
ATOM	2758	CB	SER	A	357	12.296	38.725	72.312	1.00	17.80	C
ATOM	2759	OG	SER	A	357	12.294	39.966	71.637	1.00	18.82	O

PDBO: 5L4T60



ATOM	2760	N	MET	A	358	9.270	39.309	71.380	1.00	19.48	N
ATOM	2761	CA	MET	A	358	7.997	39.943	71.691	1.00	18.78	C
ATOM	2762	C	MET	A	358	6.859	38.951	71.553	1.00	18.27	C
ATOM	2763	O	MET	A	358	5.901	38.993	72.328	1.00	17.54	O
ATOM	2764	CB	MET	A	358	7.731	41.150	70.797	1.00	18.80	C
ATOM	2765	CG	MET	A	358	6.478	41.909	71.204	1.00	16.77	C
ATOM	2766	SD	MET	A	358	6.366	42.220	73.001	1.00	18.80	S
ATOM	2767	CE	MET	A	358	7.641	43.440	73.229	1.00	16.92	C
ATOM	2768	N	PHE	A	359	6.953	38.060	70.570	1.00	18.07	N
ATOM	2769	CA	PHE	A	359	5.914	37.052	70.405	1.00	20.24	C
ATOM	2770	C	PHE	A	359	5.941	36.156	71.633	1.00	20.98	C
ATOM	2771	O	PHE	A	359	4.908	35.874	72.230	1.00	21.53	O
ATOM	2772	CB	PHE	A	359	6.146	36.178	69.173	1.00	20.83	C
ATOM	2773	CG	PHE	A	359	5.172	35.033	69.067	1.00	21.79	C
ATOM	2774	CD1	PHE	A	359	3.905	35.227	68.521	1.00	21.00	C
ATOM	2775	CD2	PHE	A	359	5.488	33.786	69.597	1.00	19.89	C
ATOM	2776	CE1	PHE	A	359	2.962	34.198	68.511	1.00	21.98	C
ATOM	2777	CE2	PHE	A	359	4.551	32.748	69.593	1.00	21.47	C
ATOM	2778	CZ	PHE	A	359	3.288	32.955	69.052	1.00	21.82	C
ATOM	2779	N	ASP	A	360	7.136	35.718	72.011	1.00	21.55	N
ATOM	2780	CA	ASP	A	360	7.279	34.843	73.164	1.00	22.90	C
ATOM	2781	C	ASP	A	360	6.683	35.448	74.429	1.00	23.51	C
ATOM	2782	O	ASP	A	360	5.874	34.809	75.105	1.00	22.81	O
ATOM	2783	CB	ASP	A	360	8.745	34.516	73.403	1.00	23.71	C
ATOM	2784	CG	ASP	A	360	8.931	33.499	74.505	1.00	26.91	C
ATOM	2785	OD1	ASP	A	360	8.355	32.393	74.394	1.00	26.88	O
ATOM	2786	OD2	ASP	A	360	9.647	33.805	75.480	1.00	28.34	O
ATOM	2787	N	LEU	A	361	7.089	36.677	74.746	1.00	23.00	N
ATOM	2788	CA	LEU	A	361	6.594	37.378	75.930	1.00	21.21	C
ATOM	2789	C	LEU	A	361	5.085	37.627	75.840	1.00	21.52	C
ATOM	2790	O	LEU	A	361	4.341	37.350	76.780	1.00	22.32	O
ATOM	2791	CB	LEU	A	361	7.319	38.719	76.093	1.00	19.57	C
ATOM	2792	CG	LEU	A	361	6.859	39.613	77.258	1.00	20.67	C
ATOM	2793	CD1	LEU	A	361	7.087	38.896	78.586	1.00	18.21	C
ATOM	2794	CD2	LEU	A	361	7.617	40.939	77.238	1.00	18.33	C
ATOM	2795	N	ALA	A	362	4.636	38.148	74.704	1.00	19.92	N
ATOM	2796	CA	ALA	A	362	3.220	38.432	74.520	1.00	19.64	C
ATOM	2797	C	ALA	A	362	2.374	37.167	74.651	1.00	20.52	C
ATOM	2798	O	ALA	A	362	1.296	37.196	75.237	1.00	21.75	O
ATOM	2799	CB	ALA	A	362	2.991	39.082	73.160	1.00	15.22	C
ATOM	2800	N	TYR	A	363	2.862	36.057	74.106	1.00	21.38	N
ATOM	2801	CA	TYR	A	363	2.120	34.802	74.174	1.00	22.82	C
ATOM	2802	C	TYR	A	363	1.942	34.358	75.625	1.00	23.59	C
ATOM	2803	O	TYR	A	363	0.835	34.024	76.056	1.00	23.24	O
ATOM	2804	CB	TYR	A	363	2.851	33.704	73.405	1.00	23.95	C
ATOM	2805	CG	TYR	A	363	2.083	32.404	73.345	1.00	27.33	C
ATOM	2806	CD1	TYR	A	363	1.012	32.248	72.464	1.00	26.39	C
ATOM	2807	CD2	TYR	A	363	2.409	31.336	74.188	1.00	27.07	C
ATOM	2808	CE1	TYR	A	363	0.284	31.068	72.416	1.00	28.92	C
ATOM	2809	CE2	TYR	A	363	1.678	30.141	74.151	1.00	29.32	C
ATOM	2810	CZ	TYR	A	363	0.619	30.020	73.258	1.00	29.96	C
ATOM	2811	OH	TYR	A	363	-0.098	28.851	73.184	1.00	32.38	O
ATOM	2812	N	GLY	A	364	3.045	34.351	76.370	1.00	23.56	N
ATOM	2813	CA	GLY	A	364	2.996	33.946	77.763	1.00	23.48	C
ATOM	2814	C	GLY	A	364	2.181	34.929	78.577	1.00	22.60	C
ATOM	2815	O	GLY	A	364	1.477	34.550	79.510	1.00	22.36	O
ATOM	2816	N	TYR	A	365	2.279	36.202	78.214	1.00	22.83	N
ATOM	2817	CA	TYR	A	365	1.553	37.265	78.894	1.00	22.65	C
ATOM	2818	C	TYR	A	365	0.059	37.038	78.681	1.00	23.65	C
ATOM	2819	O	TYR	A	365	-0.749	37.218	79.591	1.00	24.23	O
ATOM	2820	CB	TYR	A	365	1.979	38.617	78.312	1.00	21.23	C
ATOM	2821	CG	TYR	A	365	1.341	39.834	78.944	1.00	20.62	C
ATOM	2822	CD1	TYR	A	365	1.596	40.177	80.271	1.00	19.89	C
ATOM	2823	CD2	TYR	A	365	0.523	40.681	78.192	1.00	21.47	C
ATOM	2824	CE1	TYR	A	365	1.054	41.342	80.832	1.00	20.67	C
ATOM	2825	CE2	TYR	A	365	-0.019	41.842	78.737	1.00	20.09	C
ATOM	2826	CZ	TYR	A	365	0.251	42.167	80.057	1.00	20.34	C
ATOM	2827	OH	TYR	A	365	-0.280	43.318	80.591	1.00	22.94	O
ATOM	2828	N	ALA	A	366	-0.304	36.635	77.469	1.00	23.53	N
ATOM	2829	CA	ALA	A	366	-1.702	36.385	77.147	1.00	25.27	C
ATOM	2830	C	ALA	A	366	-2.285	35.251	77.987	1.00	26.29	C
ATOM	2831	O	ALA	A	366	-3.477	35.246	78.285	1.00	27.00	O
ATOM	2832	CB	ALA	A	366	-1.841	36.057	75.672	1.00	23.13	C
ATOM	2833	N	GLN	A	367	-1.441	34.298	78.372	1.00	27.88	N
ATOM	2834	CA	GLN	A	367	-1.890	33.149	79.157	1.00	30.34	C
ATOM	2835	C	GLN	A	367	-1.740	33.316	80.674	1.00	29.88	C
ATOM	2836	O	GLN	A	367	-2.661	32.997	81.427	1.00	29.87	O
ATOM	2837	CB	GLN	A	367	-1.125	31.877	78.750	1.00	32.59	C
ATOM	2838	CG	GLN	A	367	-0.809	31.706	77.261	1.00	38.28	C
ATOM	2839	CD	GLN	A	367	-2.041	31.620	76.374	1.00	40.78	C



ATOM	2840	OE1	GLN	A	367	-2.994	30.902	76.676	1.00	41.30	O
ATOM	2841	NE2	GLN	A	367	-2.015	32.347	75.259	1.00	43.00	N
ATOM	2842	N	ASN	A	368	-0.588	33.816	81.121	1.00	28.25	N
ATOM	2843	CA	ASN	A	368	-0.335	33.954	82.557	1.00	27.61	C
ATOM	2844	C	ASN	A	368	-0.032	35.357	83.065	1.00	25.36	C
ATOM	2845	O	ASN	A	368	0.436	35.526	84.189	1.00	22.43	O
ATOM	2846	CB	ASN	A	368	0.813	33.030	82.957	1.00	28.82	C
ATOM	2847	CG	ASN	A	368	0.639	31.632	82.419	1.00	30.67	C
ATOM	2848	OD1	ASN	A	368	1.443	31.161	81.616	1.00	33.84	O
ATOM	2849	ND2	ASN	A	368	-0.419	30.960	82.852	1.00	32.46	N
ATOM	2850	N	GLN	A	369	-0.292	36.359	82.238	1.00	25.05	N
ATOM	2851	CA	GLN	A	369	-0.044	37.743	82.616	1.00	23.57	C
ATOM	2852	C	GLN	A	369	1.340	38.001	83.241	1.00	21.30	C
ATOM	2853	O	GLN	A	369	2.367	37.672	82.644	1.00	21.70	O
ATOM	2854	CB	GLN	A	369	-1.159	38.230	83.546	1.00	24.72	C
ATOM	2855	CG	GLN	A	369	-2.542	38.148	82.923	1.00	26.35	C
ATOM	2856	CD	GLN	A	369	-3.168	36.761	83.038	1.00	29.01	C
ATOM	2857	OE1	GLN	A	369	-3.915	36.331	82.165	1.00	31.50	O
ATOM	2858	NE2	GLN	A	369	-2.878	36.070	84.127	1.00	29.01	N
ATOM	2859	N	MET	A	370	1.370	38.580	84.438	1.00	20.27	N
ATOM	2860	CA	MET	A	370	2.636	38.915	85.090	1.00	20.21	C
ATOM	2861	C	MET	A	370	3.700	37.827	85.195	1.00	21.83	C
ATOM	2862	O	MET	A	370	4.891	38.113	85.073	1.00	20.01	O
ATOM	2863	CB	MET	A	370	2.375	39.497	86.477	1.00	21.26	C
ATOM	2864	CG	MET	A	370	1.626	40.821	86.452	1.00	22.10	C
ATOM	2865	SD	MET	A	370	2.164	41.910	85.100	1.00	23.63	S
ATOM	2866	CE	MET	A	370	3.937	42.152	85.516	1.00	20.16	C
ATOM	2867	N	SER	A	371	3.287	36.587	85.430	1.00	23.23	N
ATOM	2868	CA	SER	A	371	4.248	35.497	85.542	1.00	24.49	C
ATOM	2869	C	SER	A	371	5.163	35.458	84.317	1.00	24.68	C
ATOM	2870	O	SER	A	371	6.381	35.261	84.439	1.00	23.68	O
ATOM	2871	CB	SER	A	371	3.521	34.154	85.694	1.00	24.98	C
ATOM	2872	OG	SER	A	371	2.822	34.084	86.929	1.00	27.60	O
ATOM	2873	N	ALA	A	372	4.580	35.654	83.139	1.00	23.66	N
ATOM	2874	CA	ALA	A	372	5.360	35.636	81.906	1.00	23.58	C
ATOM	2875	C	ALA	A	372	6.428	36.724	81.898	1.00	23.59	C
ATOM	2876	O	ALA	A	372	7.561	36.482	81.484	1.00	25.72	O
ATOM	2877	CB	ALA	A	372	4.443	35.799	80.692	1.00	24.04	C
ATOM	2878	N	TYR	A	373	6.079	37.922	82.353	1.00	23.42	N
ATOM	2879	CA	TYR	A	373	7.054	39.002	82.346	1.00	23.12	C
ATOM	2880	C	TYR	A	373	8.140	38.826	83.404	1.00	22.85	C
ATOM	2881	O	TYR	A	373	9.320	39.075	83.150	1.00	22.20	O
ATOM	2882	CB	TYR	A	373	6.380	40.359	82.545	1.00	22.41	C
ATOM	2883	CG	TYR	A	373	7.365	41.479	82.344	1.00	22.84	C
ATOM	2884	CD1	TYR	A	373	7.813	41.810	81.061	1.00	20.96	C
ATOM	2885	CD2	TYR	A	373	7.959	42.112	83.433	1.00	21.96	C
ATOM	2886	CE1	TYR	A	373	8.834	42.726	80.869	1.00	18.57	C
ATOM	2887	CE2	TYR	A	373	8.986	43.034	83.252	1.00	22.39	C
ATOM	2888	CZ	TYR	A	373	9.420	43.331	81.967	1.00	22.52	C
ATOM	2889	OH	TYR	A	373	10.470	44.200	81.784	1.00	24.05	O
ATOM	2890	N	VAL	A	374	7.737	38.399	84.593	1.00	23.76	N
ATOM	2891	CA	VAL	A	374	8.682	38.201	85.677	1.00	23.21	C
ATOM	2892	C	VAL	A	374	9.770	37.228	85.237	1.00	24.03	C
ATOM	2893	O	VAL	A	374	10.926	37.354	85.643	1.00	22.40	O
ATOM	2894	CB	VAL	A	374	7.961	37.686	86.933	1.00	24.64	C
ATOM	2895	CG1	VAL	A	374	8.969	37.404	88.043	1.00	24.28	C
ATOM	2896	CG2	VAL	A	374	6.939	38.733	87.397	1.00	20.04	C
ATOM	2897	N	GLU	A	375	9.407	36.265	84.394	1.00	24.82	N
ATOM	2898	CA	GLU	A	375	10.388	35.308	83.895	1.00	27.16	C
ATOM	2899	C	GLU	A	375	11.465	36.040	83.102	1.00	26.31	C
ATOM	2900	O	GLU	A	375	12.650	35.728	83.206	1.00	26.42	O
ATOM	2901	CB	GLU	A	375	9.718	34.259	83.006	1.00	30.40	C
ATOM	2902	CG	GLU	A	375	9.103	33.119	83.787	1.00	35.83	C
ATOM	2903	CD	GLU	A	375	8.517	32.048	82.897	1.00	38.22	C
ATOM	2904	OE1	GLU	A	375	9.177	31.690	81.900	1.00	41.12	O
ATOM	2905	OE2	GLU	A	375	7.406	31.557	83.202	1.00	40.00	O
ATOM	2906	N	LEU	A	376	11.044	37.017	82.304	1.00	25.65	N
ATOM	2907	CA	LEU	A	376	11.987	37.792	81.512	1.00	23.75	C
ATOM	2908	C	LEU	A	376	12.872	38.595	82.458	1.00	22.75	C
ATOM	2909	O	LEU	A	376	14.095	38.581	82.335	1.00	23.04	O
ATOM	2910	CB	LEU	A	376	11.242	38.742	80.552	1.00	22.44	C
ATOM	2911	CG	LEU	A	376	12.097	39.782	79.807	1.00	20.41	C
ATOM	2912	CD1	LEU	A	376	13.171	39.071	78.977	1.00	19.17	C
ATOM	2913	CD2	LEU	A	376	11.219	40.648	78.912	1.00	19.49	C
ATOM	2914	N	GLN	A	377	12.255	39.291	83.407	1.00	20.79	N
ATOM	2915	CA	GLN	A	377	13.028	40.091	84.347	1.00	22.61	C
ATOM	2916	C	GLN	A	377	14.111	39.264	85.036	1.00	23.28	C
ATOM	2917	O	GLN	A	377	15.253	39.704	85.155	1.00	23.12	O
ATOM	2918	CB	GLN	A	377	12.120	40.724	85.401	1.00	20.50	C
ATOM	2919	CG	GLN	A	377	12.821	41.810	86.200	1.00	22.81	C



ATOM	2920	CD	GLN	A	377	11.893	42.580	87.120	1.00	21.95	C
ATOM	2921	OE1	GLN	A	377	11.871	43.807	87.102	1.00	25.02	O
ATOM	2922	NE2	GLN	A	377	11.132	41.864	87.938	1.00	22.93	N
ATOM	2923	N	GLU	A	378	13.756	38.066	85.487	1.00	23.62	N
ATOM	2924	CA	GLU	A	378	14.718	37.203	86.163	1.00	25.12	C
ATOM	2925	C	GLU	A	378	15.838	36.760	85.226	1.00	25.64	C
ATOM	2926	O	GLU	A	378	16.980	36.584	85.663	1.00	24.29	O
ATOM	2927	CB	GLU	A	378	14.012	35.985	86.761	1.00	27.08	C
ATOM	2928	CG	GLU	A	378	13.148	36.312	87.969	1.00	30.49	C
ATOM	2929	CD	GLU	A	378	13.955	36.877	89.130	1.00	33.17	C
ATOM	2930	OE1	GLU	A	378	14.949	36.234	89.530	1.00	34.35	O
ATOM	2931	OE2	GLU	A	378	13.600	37.958	89.644	1.00	34.03	O
ATOM	2932	N	ARG	A	379	15.522	36.564	83.945	1.00	24.45	N
ATOM	2933	CA	ARG	A	379	16.564	36.187	83.002	1.00	25.04	C
ATOM	2934	C	ARG	A	379	17.498	37.384	82.871	1.00	24.40	C
ATOM	2935	O	ARG	A	379	18.706	37.221	82.731	1.00	26.59	O
ATOM	2936	CB	ARG	A	379	15.983	35.803	81.635	1.00	25.69	C
ATOM	2937	CG	ARG	A	379	15.263	34.456	81.646	1.00	30.45	C
ATOM	2938	CD	ARG	A	379	15.258	33.781	80.281	1.00	30.56	C
ATOM	2939	NE	ARG	A	379	14.402	34.466	79.321	1.00	35.79	N
ATOM	2940	CZ	ARG	A	379	13.074	34.444	79.351	1.00	37.63	C
ATOM	2941	NH1	ARG	A	379	12.435	33.765	80.298	1.00	40.23	N
ATOM	2942	NH2	ARG	A	379	12.382	35.104	78.433	1.00	36.09	N
ATOM	2943	N	GLU	A	380	16.936	38.587	82.943	1.00	22.83	N
ATOM	2944	CA	GLU	A	380	17.737	39.805	82.854	1.00	23.98	C
ATOM	2945	C	GLU	A	380	18.661	39.944	84.063	1.00	23.96	C
ATOM	2946	O	GLU	A	380	19.857	40.213	83.915	1.00	23.36	O
ATOM	2947	CB	GLU	A	380	16.838	41.036	82.753	1.00	23.87	C
ATOM	2948	CG	GLU	A	380	16.253	41.271	81.366	1.00	24.69	C
ATOM	2949	CD	GLU	A	380	15.354	42.495	81.325	1.00	26.05	C
ATOM	2950	OE1	GLU	A	380	14.255	42.438	81.915	1.00	27.07	O
ATOM	2951	OE2	GLU	A	380	15.752	43.515	80.720	1.00	24.42	O
ATOM	2952	N	PHE	A	381	18.105	39.773	85.258	1.00	24.58	N
ATOM	2953	CA	PHE	A	381	18.907	39.859	86.474	1.00	25.59	C
ATOM	2954	C	PHE	A	381	20.050	38.848	86.400	1.00	25.38	C
ATOM	2955	O	PHE	A	381	21.194	39.162	86.725	1.00	23.26	O
ATOM	2956	CB	PHE	A	381	18.059	39.555	87.712	1.00	25.81	C
ATOM	2957	CG	PHE	A	381	17.187	40.692	88.151	1.00	27.05	C
ATOM	2958	CD1	PHE	A	381	17.705	41.978	88.274	1.00	27.92	C
ATOM	2959	CD2	PHE	A	381	15.855	40.471	88.488	1.00	27.66	C
ATOM	2960	CE1	PHE	A	381	16.910	43.025	88.730	1.00	27.92	C
ATOM	2961	CE2	PHE	A	381	15.052	41.510	88.945	1.00	26.69	C
ATOM	2962	CZ	PHE	A	381	15.579	42.791	89.067	1.00	26.91	C
ATOM	2963	N	ALA	A	382	19.726	37.635	85.960	1.00	25.67	N
ATOM	2964	CA	ALA	A	382	20.717	36.578	85.850	1.00	26.46	C
ATOM	2965	C	ALA	A	382	21.786	36.895	84.819	1.00	27.27	C
ATOM	2966	O	ALA	A	382	22.946	36.554	85.007	1.00	27.63	O
ATOM	2967	CB	ALA	A	382	20.037	35.259	85.506	1.00	27.53	C
ATOM	2968	N	ALA	A	383	21.394	37.556	83.736	1.00	27.83	N
ATOM	2969	CA	ALA	A	383	22.328	37.899	82.671	1.00	27.29	C
ATOM	2970	C	ALA	A	383	23.355	38.960	83.074	1.00	29.30	C
ATOM	2971	O	ALA	A	383	24.345	39.178	82.365	1.00	28.47	O
ATOM	2972	CB	ALA	A	383	21.557	38.363	81.445	1.00	27.94	C
ATOM	2973	N	GLU	A	384	23.126	39.618	84.206	1.00	29.35	N
ATOM	2974	CA	GLU	A	384	24.038	40.654	84.668	1.00	30.98	C
ATOM	2975	C	GLU	A	384	25.452	40.130	84.909	1.00	31.66	C
ATOM	2976	O	GLU	A	384	26.431	40.855	84.722	1.00	30.73	O
ATOM	2977	CB	GLU	A	384	23.497	41.295	85.945	1.00	32.61	C
ATOM	2978	CG	GLU	A	384	22.122	41.907	85.777	1.00	35.53	C
ATOM	2979	CD	GLU	A	384	21.664	42.630	87.018	1.00	36.50	C
ATOM	2980	OE1	GLU	A	384	21.850	42.068	88.117	1.00	40.07	O
ATOM	2981	OE2	GLU	A	384	21.116	43.748	86.900	1.00	37.65	O
ATOM	2982	N	GLU	A	385	25.565	38.872	85.320	1.00	32.28	N
ATOM	2983	CA	GLU	A	385	26.878	38.300	85.563	1.00	34.67	C
ATOM	2984	C	GLU	A	385	27.625	38.143	84.240	1.00	33.80	C
ATOM	2985	O	GLU	A	385	28.845	37.964	84.226	1.00	31.82	O
ATOM	2986	CB	GLU	A	385	26.756	36.952	86.282	1.00	38.06	C
ATOM	2987	CG	GLU	A	385	25.981	35.901	85.525	1.00	45.94	C
ATOM	2988	CD	GLU	A	385	25.823	34.619	86.321	1.00	51.23	C
ATOM	2989	OE1	GLU	A	385	26.856	34.004	86.672	1.00	52.69	O
ATOM	2990	OE2	GLU	A	385	24.666	34.228	86.600	1.00	53.91	O
ATOM	2991	N	ARG	A	386	26.888	38.218	83.131	1.00	32.89	N
ATOM	2992	CA	ARG	A	386	27.487	38.116	81.799	1.00	32.24	C
ATOM	2993	C	ARG	A	386	27.812	39.515	81.286	1.00	30.88	C
ATOM	2994	O	ARG	A	386	28.397	39.672	80.215	1.00	31.02	O
ATOM	2995	CB	ARG	A	386	26.538	37.430	80.810	1.00	33.37	C
ATOM	2996	CG	ARG	A	386	26.479	35.913	80.922	1.00	36.19	C
ATOM	2997	CD	ARG	A	386	25.675	35.305	79.767	1.00	37.84	C
ATOM	2998	NE	ARG	A	386	24.244	35.596	79.866	1.00	39.80	N
ATOM	2999	CZ	ARG	A	386	23.370	35.424	78.877	1.00	39.45	C



ATOM	3000	NH1	ARG	A	386	23.776	34.965	77.702	1.00	41.63	N
ATOM	3001	NH2	ARG	A	386	22.085	35.710	79.061	1.00	37.09	N
ATOM	3002	N	GLY	A	387	27.414	40.528	82.051	1.00	29.63	N
ATOM	3003	CA	GLY	A	387	27.683	41.902	81.661	1.00	28.19	C
ATOM	3004	C	GLY	A	387	26.465	42.724	81.274	1.00	26.05	C
ATOM	3005	O	GLY	A	387	26.589	43.910	80.986	1.00	24.82	O
ATOM	3006	N	TYR	A	388	25.291	42.100	81.267	1.00	25.50	N
ATOM	3007	CA	TYR	A	388	24.059	42.792	80.915	1.00	25.17	C
ATOM	3008	C	TYR	A	388	23.790	43.902	81.921	1.00	25.90	C
ATOM	3009	O	TYR	A	388	23.903	43.681	83.125	1.00	28.16	O
ATOM	3010	CB	TYR	A	388	22.889	41.814	80.922	1.00	24.06	C
ATOM	3011	CG	TYR	A	388	21.585	42.415	80.441	1.00	22.57	C
ATOM	3012	CD1	TYR	A	388	21.433	42.832	79.117	1.00	21.75	C
ATOM	3013	CD2	TYR	A	388	20.493	42.527	81.297	1.00	21.15	C
ATOM	3014	CE1	TYR	A	388	20.223	43.336	78.654	1.00	19.92	C
ATOM	3015	CE2	TYR	A	388	19.282	43.029	80.852	1.00	21.40	C
ATOM	3016	CZ	TYR	A	388	19.151	43.428	79.526	1.00	22.03	C
ATOM	3017	OH	TYR	A	388	17.941	43.883	79.078	1.00	17.57	O
ATOM	3018	N	THR	A	389	23.425	45.084	81.433	1.00	24.43	N
ATOM	3019	CA	THR	A	389	23.149	46.215	82.317	1.00	23.99	C
ATOM	3020	C	THR	A	389	21.774	46.862	82.144	1.00	23.34	C
ATOM	3021	O	THR	A	389	21.364	47.667	82.977	1.00	24.46	O
ATOM	3022	CB	THR	A	389	24.206	47.324	82.138	1.00	24.58	C
ATOM	3023	OG1	THR	A	389	24.145	47.838	80.801	1.00	22.97	O
ATOM	3024	CG2	THR	A	389	25.603	46.771	82.393	1.00	25.50	C
ATOM	3025	N	ALA	A	390	21.057	46.508	81.082	1.00	22.58	N
ATOM	3026	CA	ALA	A	390	19.748	47.113	80.814	1.00	22.69	C
ATOM	3027	C	ALA	A	390	18.650	46.833	81.830	1.00	21.58	C
ATOM	3028	O	ALA	A	390	17.590	47.453	81.773	1.00	21.71	O
ATOM	3029	CB	ALA	A	390	19.270	46.728	79.419	1.00	22.62	C
ATOM	3030	N	THR	A	391	18.886	45.913	82.761	1.00	22.10	N
ATOM	3031	CA	THR	A	391	17.871	45.616	83.775	1.00	22.57	C
ATOM	3032	C	THR	A	391	17.506	46.933	84.461	1.00	22.96	C
ATOM	3033	O	THR	A	391	16.337	47.207	84.739	1.00	23.67	O
ATOM	3034	CB	THR	A	391	18.392	44.627	84.842	1.00	24.60	C
ATOM	3035	OG1	THR	A	391	19.103	43.558	84.207	1.00	21.82	O
ATOM	3036	CG2	THR	A	391	17.225	44.041	85.624	1.00	24.55	C
ATOM	3037	N	LYS	A	392	18.523	47.741	84.738	1.00	22.96	N
ATOM	3038	CA	LYS	A	392	18.329	49.053	85.351	1.00	23.26	C
ATOM	3039	C	LYS	A	392	18.139	49.996	84.170	1.00	22.33	C
ATOM	3040	O	LYS	A	392	19.074	50.683	83.741	1.00	20.73	O
ATOM	3041	CB	LYS	A	392	19.567	49.445	86.144	1.00	23.48	C
ATOM	3042	CG	LYS	A	392	19.888	48.485	87.269	1.00	29.88	C
ATOM	3043	CD	LYS	A	392	21.350	48.589	87.663	1.00	31.17	C
ATOM	3044	CE	LYS	A	392	21.536	48.905	89.128	1.00	33.01	C
ATOM	3045	NZ	LYS	A	392	21.188	50.317	89.464	1.00	36.09	N
ATOM	3046	N	HIS	A	393	16.922	50.008	83.640	1.00	21.74	N
ATOM	3047	CA	HIS	A	393	16.607	50.817	82.471	1.00	21.77	C
ATOM	3048	C	HIS	A	393	16.851	52.323	82.557	1.00	20.34	C
ATOM	3049	O	HIS	A	393	17.228	52.936	81.560	1.00	22.01	O
ATOM	3050	CB	HIS	A	393	15.162	50.546	82.019	1.00	21.66	C
ATOM	3051	CG	HIS	A	393	14.149	50.598	83.121	1.00	21.38	C
ATOM	3052	ND1	HIS	A	393	13.457	49.483	83.546	1.00	21.75	N
ATOM	3053	CD2	HIS	A	393	13.680	51.635	83.859	1.00	20.86	C
ATOM	3054	CE1	HIS	A	393	12.603	49.831	84.494	1.00	20.21	C
ATOM	3055	NE2	HIS	A	393	12.718	51.131	84.702	1.00	19.62	N
ATOM	3056	N	GLN	A	394	16.662	52.914	83.733	1.00	19.10	N
ATOM	3057	CA	GLN	A	394	16.844	54.359	83.894	1.00	19.63	C
ATOM	3058	C	GLN	A	394	18.257	54.831	83.545	1.00	19.29	C
ATOM	3059	O	GLN	A	394	18.434	55.688	82.682	1.00	19.61	O
ATOM	3060	CB	GLN	A	394	16.488	54.778	85.321	1.00	19.17	C
ATOM	3061	CG	GLN	A	394	15.156	54.231	85.797	1.00	21.24	C
ATOM	3062	CD	GLN	A	394	13.951	54.869	85.115	1.00	21.40	C
ATOM	3063	OE1	GLN	A	394	13.999	55.249	83.945	1.00	20.77	O
ATOM	3064	NE2	GLN	A	394	12.851	54.964	85.849	1.00	21.57	N
ATOM	3065	N	ARG	A	395	19.261	54.281	84.215	1.00	18.06	N
ATOM	3066	CA	ARG	A	395	20.641	54.662	83.940	1.00	18.73	C
ATOM	3067	C	ARG	A	395	21.044	54.235	82.532	1.00	18.07	C
ATOM	3068	O	ARG	A	395	21.801	54.928	81.857	1.00	18.33	O
ATOM	3069	CB	ARG	A	395	21.592	54.015	84.958	1.00	20.53	C
ATOM	3070	CG	ARG	A	395	21.423	52.510	85.081	1.00	21.56	C
ATOM	3071	CD	ARG	A	395	22.725	51.841	85.468	1.00	22.88	C
ATOM	3072	NE	ARG	A	395	23.732	51.957	84.414	1.00	23.09	N
ATOM	3073	CZ	ARG	A	395	23.612	51.436	83.193	1.00	22.82	C
ATOM	3074	NH1	ARG	A	395	22.521	50.755	82.854	1.00	21.19	N
ATOM	3075	NH2	ARG	A	395	24.590	51.586	82.312	1.00	19.48	N
ATOM	3076	N	GLU	A	396	20.528	53.087	82.101	1.00	17.78	N
ATOM	3077	CA	GLU	A	396	20.817	52.533	80.783	1.00	17.57	C
ATOM	3078	C	GLU	A	396	20.467	53.521	79.682	1.00	18.41	C
ATOM	3079	O	GLU	A	396	21.115	53.566	78.636	1.00	18.49	O



ATOM	3080	CB	GLU	A	396	20.002	51.253	80.576	1.00	19.14	C
ATOM	3081	CG	GLU	A	396	20.236	50.526	79.250	1.00	20.66	C
ATOM	3082	CD	GLU	A	396	21.610	49.869	79.161	1.00	21.94	C
ATOM	3083	OE1	GLU	A	396	22.199	49.567	80.221	1.00	20.26	O
ATOM	3084	OE2	GLU	A	396	22.096	49.639	78.030	1.00	21.47	O
ATOM	3085	N	VAL	A	397	19.441	54.319	79.935	1.00	17.19	N
ATOM	3086	CA	VAL	A	397	18.964	55.270	78.958	1.00	18.51	C
ATOM	3087	C	VAL	A	397	19.455	56.703	79.208	1.00	18.87	C
ATOM	3088	O	VAL	A	397	19.033	57.643	78.528	1.00	17.52	O
ATOM	3089	CB	VAL	A	397	17.414	55.196	78.904	1.00	19.83	C
ATOM	3090	CG1	VAL	A	397	16.800	56.063	79.977	1.00	19.34	C
ATOM	3091	CG2	VAL	A	397	16.930	55.561	77.547	1.00	25.17	C
ATOM	3092	N	GLY	A	398	20.342	56.862	80.191	1.00	17.90	N
ATOM	3093	CA	GLY	A	398	20.904	58.170	80.474	1.00	17.06	C
ATOM	3094	C	GLY	A	398	20.393	58.996	81.639	1.00	17.02	C
ATOM	3095	O	GLY	A	398	20.803	60.143	81.774	1.00	17.55	O
ATOM	3096	N	ALA	A	399	19.523	58.449	82.484	1.00	17.50	N
ATOM	3097	CA	ALA	A	399	19.010	59.221	83.615	1.00	18.89	C
ATOM	3098	C	ALA	A	399	20.155	59.768	84.475	1.00	20.27	C
ATOM	3099	O	ALA	A	399	20.086	60.891	84.985	1.00	19.59	O
ATOM	3100	CB	ALA	A	399	18.079	58.368	84.464	1.00	17.77	C
ATOM	3101	N	GLY	A	400	21.210	58.978	84.634	1.00	20.39	N
ATOM	3102	CA	GLY	A	400	22.340	59.438	85.425	1.00	20.11	C
ATOM	3103	C	GLY	A	400	23.094	60.547	84.707	1.00	19.61	C
ATOM	3104	O	GLY	A	400	23.529	61.512	85.321	1.00	20.13	O
ATOM	3105	N	TYR	A	401	23.239	60.416	83.394	1.00	19.91	N
ATOM	3106	CA	TYR	A	401	23.951	61.405	82.602	1.00	18.58	C
ATOM	3107	C	TYR	A	401	23.257	62.770	82.647	1.00	20.02	C
ATOM	3108	O	TYR	A	401	23.900	63.783	82.908	1.00	20.01	O
ATOM	3109	CB	TYR	A	401	24.075	60.914	81.157	1.00	19.97	C
ATOM	3110	CG	TYR	A	401	24.837	61.847	80.246	1.00	19.66	C
ATOM	3111	CD1	TYR	A	401	26.219	62.000	80.368	1.00	19.87	C
ATOM	3112	CD2	TYR	A	401	24.172	62.605	79.281	1.00	19.72	C
ATOM	3113	CE1	TYR	A	401	26.922	62.886	79.550	1.00	17.56	C
ATOM	3114	CE2	TYR	A	401	24.868	63.501	78.460	1.00	18.96	C
ATOM	3115	CZ	TYR	A	401	26.242	63.630	78.602	1.00	18.93	C
ATOM	3116	OH	TYR	A	401	26.935	64.491	77.785	1.00	19.21	O
ATOM	3117	N	PHE	A	402	21.949	62.808	82.396	1.00	19.27	N
ATOM	3118	CA	PHE	A	402	21.244	64.079	82.432	1.00	18.36	C
ATOM	3119	C	PHE	A	402	21.186	64.661	83.832	1.00	18.61	C
ATOM	3120	O	PHE	A	402	21.010	65.871	83.993	1.00	19.42	O
ATOM	3121	CB	PHE	A	402	19.839	63.952	81.823	1.00	17.47	C
ATOM	3122	CG	PHE	A	402	19.853	63.902	80.314	1.00	17.97	C
ATOM	3123	CD1	PHE	A	402	20.110	62.709	79.641	1.00	14.64	C
ATOM	3124	CD2	PHE	A	402	19.717	65.069	79.570	1.00	16.19	C
ATOM	3125	CE1	PHE	A	402	20.237	62.688	78.255	1.00	14.92	C
ATOM	3126	CE2	PHE	A	402	19.845	65.057	78.179	1.00	15.95	C
ATOM	3127	CZ	PHE	A	402	20.107	63.865	77.521	1.00	13.61	C
ATOM	3128	N	ASP	A	403	21.335	63.817	84.850	1.00	18.67	N
ATOM	3129	CA	ASP	A	403	21.341	64.332	86.215	1.00	21.33	C
ATOM	3130	C	ASP	A	403	22.637	65.116	86.376	1.00	22.06	C
ATOM	3131	O	ASP	A	403	22.666	66.185	86.982	1.00	21.54	O
ATOM	3132	CB	ASP	A	403	21.286	63.204	87.249	1.00	23.15	C
ATOM	3133	CG	ASP	A	403	19.864	62.867	87.666	1.00	27.04	C
ATOM	3134	OD1	ASP	A	403	18.959	63.677	87.380	1.00	27.61	O
ATOM	3135	OD2	ASP	A	403	19.647	61.803	88.287	1.00	29.62	O
ATOM	3136	N	ARG	A	404	23.708	64.577	85.805	1.00	22.87	N
ATOM	3137	CA	ARG	A	404	25.008	65.216	85.863	1.00	22.61	C
ATOM	3138	C	ARG	A	404	24.914	66.573	85.169	1.00	22.71	C
ATOM	3139	O	ARG	A	404	25.441	67.576	85.658	1.00	21.46	O
ATOM	3140	CB	ARG	A	404	26.048	64.335	85.175	1.00	25.04	C
ATOM	3141	CG	ARG	A	404	27.466	64.830	85.319	1.00	28.87	C
ATOM	3142	CD	ARG	A	404	27.842	64.975	86.788	1.00	35.82	C
ATOM	3143	NE	ARG	A	404	29.223	65.432	86.945	1.00	41.00	N
ATOM	3144	CZ	ARG	A	404	30.293	64.653	86.822	1.00	41.08	C
ATOM	3145	NH1	ARG	A	404	30.154	63.363	86.548	1.00	40.82	N
ATOM	3146	NH2	ARG	A	404	31.505	65.174	86.956	1.00	43.23	N
ATOM	3147	N	ILE	A	405	24.238	66.608	84.025	1.00	20.28	N
ATOM	3148	CA	ILE	A	405	24.070	67.866	83.314	1.00	18.30	C
ATOM	3149	C	ILE	A	405	23.319	68.858	84.201	1.00	18.55	C
ATOM	3150	O	ILE	A	405	23.721	70.011	84.337	1.00	17.31	O
ATOM	3151	CB	ILE	A	405	23.266	67.683	82.005	1.00	17.07	C
ATOM	3152	CG1	ILE	A	405	24.090	66.878	80.995	1.00	15.05	C
ATOM	3153	CG2	ILE	A	405	22.884	69.056	81.420	1.00	14.42	C
ATOM	3154	CD1	ILE	A	405	23.405	66.725	79.640	1.00	14.92	C
ATOM	3155	N	ALA	A	406	22.230	68.394	84.809	1.00	18.96	N
ATOM	3156	CA	ALA	A	406	21.410	69.241	85.662	1.00	18.90	C
ATOM	3157	C	ALA	A	406	22.174	69.804	86.854	1.00	19.85	C
ATOM	3158	O	ALA	A	406	22.086	70.994	87.141	1.00	20.82	O
ATOM	3159	CB	ALA	A	406	20.175	68.469	86.141	1.00	18.39	C



ATOM	3160	N	THR	A	407	22.926	68.963	87.550	1.00	21.73	N
ATOM	3161	CA	THR	A	407	23.680	69.440	88.704	1.00	23.66	C
ATOM	3162	C	THR	A	407	24.872	70.285	88.276	1.00	24.70	C
ATOM	3163	O	THR	A	407	25.482	70.975	89.096	1.00	25.41	O
ATOM	3164	CB	THR	A	407	24.162	68.283	89.590	1.00	23.67	C
ATOM	3165	OG1	THR	A	407	25.033	67.430	88.839	1.00	25.64	O
ATOM	3166	CG2	THR	A	407	22.970	67.483	90.102	1.00	22.90	C
ATOM	3167	N	THR	A	408	25.212	70.227	86.990	1.00	24.94	N
ATOM	3168	CA	THR	A	408	26.308	71.039	86.474	1.00	22.90	C
ATOM	3169	C	THR	A	408	25.707	72.430	86.248	1.00	23.54	C
ATOM	3170	O	THR	A	408	26.317	73.446	86.568	1.00	24.90	O
ATOM	3171	CB	THR	A	408	26.852	70.484	85.136	1.00	22.92	C
ATOM	3172	OG1	THR	A	408	27.340	69.148	85.331	1.00	24.70	O
ATOM	3173	CG2	THR	A	408	27.987	71.366	84.610	1.00	21.57	C
ATOM	3174	N	VAL	A	409	24.499	72.471	85.700	1.00	23.01	N
ATOM	3175	CA	VAL	A	409	23.831	73.742	85.463	1.00	23.85	C
ATOM	3176	C	VAL	A	409	23.449	74.381	86.797	1.00	24.38	C
ATOM	3177	O	VAL	A	409	23.594	75.590	86.980	1.00	23.33	O
ATOM	3178	CB	VAL	A	409	22.565	73.562	84.590	1.00	22.85	C
ATOM	3179	CG1	VAL	A	409	21.763	74.858	84.545	1.00	23.27	C
ATOM	3180	CG2	VAL	A	409	22.967	73.167	83.184	1.00	23.68	C
ATOM	3181	N	ASP	A	410	22.965	73.563	87.728	1.00	26.99	N
ATOM	3182	CA	ASP	A	410	22.574	74.042	89.054	1.00	29.45	C
ATOM	3183	C	ASP	A	410	22.729	72.918	90.068	1.00	31.07	C
ATOM	3184	O	ASP	A	410	21.818	72.118	90.268	1.00	31.33	O
ATOM	3185	CB	ASP	A	410	21.121	74.538	89.053	1.00	29.82	C
ATOM	3186	CG	ASP	A	410	20.620	74.910	90.454	1.00	31.39	C
ATOM	3187	OD1	ASP	A	410	21.451	75.052	91.374	1.00	32.80	O
ATOM	3188	OD2	ASP	A	410	19.393	75.067	90.636	1.00	32.07	O
ATOM	3189	N	PRO	A	411	23.891	72.848	90.729	1.00	32.59	N
ATOM	3190	CA	PRO	A	411	24.121	71.794	91.719	1.00	33.18	C
ATOM	3191	C	PRO	A	411	23.049	71.677	92.807	1.00	35.11	C
ATOM	3192	O	PRO	A	411	22.812	70.588	93.321	1.00	35.38	O
ATOM	3193	CB	PRO	A	411	25.514	72.125	92.268	1.00	32.74	C
ATOM	3194	CG	PRO	A	411	25.685	73.597	91.971	1.00	33.92	C
ATOM	3195	CD	PRO	A	411	25.056	73.742	90.617	1.00	33.33	C
ATOM	3196	N	ASN	A	412	22.390	72.784	93.142	1.00	36.57	N
ATOM	3197	CA	ASN	A	412	21.354	72.767	94.173	1.00	37.86	C
ATOM	3198	C	ASN	A	412	19.975	72.409	93.615	1.00	37.97	C
ATOM	3199	O	ASN	A	412	18.970	72.474	94.331	1.00	37.55	O
ATOM	3200	CB	ASN	A	412	21.278	74.128	94.868	1.00	39.62	C
ATOM	3201	CG	ASN	A	412	22.635	74.609	95.353	1.00	42.81	C
ATOM	3202	OD1	ASN	A	412	23.333	73.905	96.091	1.00	41.85	O
ATOM	3203	ND2	ASN	A	412	23.017	75.816	94.939	1.00	43.10	N
ATOM	3204	N	SER	A	413	19.932	72.025	92.341	1.00	37.02	N
ATOM	3205	CA	SER	A	413	18.672	71.665	91.689	1.00	36.90	C
ATOM	3206	C	SER	A	413	17.869	70.633	92.479	1.00	36.44	C
ATOM	3207	O	SER	A	413	18.376	69.563	92.818	1.00	37.12	O
ATOM	3208	CB	SER	A	413	18.934	71.120	90.285	1.00	34.99	C
ATOM	3209	OG	SER	A	413	17.736	70.620	89.720	1.00	33.29	O
ATOM	3210	N	SER	A	414	16.609	70.952	92.752	1.00	35.94	N
ATOM	3211	CA	SER	A	414	15.757	70.045	93.504	1.00	37.10	C
ATOM	3212	C	SER	A	414	14.890	69.153	92.614	1.00	36.15	C
ATOM	3213	O	SER	A	414	13.880	68.618	93.066	1.00	36.49	O
ATOM	3214	CB	SER	A	414	14.879	70.841	94.479	1.00	37.79	C
ATOM	3215	OG	SER	A	414	14.139	71.839	93.807	1.00	39.54	O
ATOM	3216	N	THR	A	415	15.294	68.973	91.360	1.00	35.15	N
ATOM	3217	CA	THR	A	415	14.527	68.139	90.443	1.00	35.25	C
ATOM	3218	C	THR	A	415	15.341	67.074	89.710	1.00	36.40	C
ATOM	3219	O	THR	A	415	15.061	66.777	88.548	1.00	35.69	O
ATOM	3220	CB	THR	A	415	13.798	68.987	89.374	1.00	35.94	C
ATOM	3221	OG1	THR	A	415	14.750	69.798	88.672	1.00	36.06	O
ATOM	3222	CG2	THR	A	415	12.737	69.877	90.018	1.00	36.06	C
ATOM	3223	N	THR	A	416	16.346	66.501	90.370	1.00	35.59	N
ATOM	3224	CA	THR	A	416	17.139	65.454	89.734	1.00	35.86	C
ATOM	3225	C	THR	A	416	16.262	64.205	89.659	1.00	34.98	C
ATOM	3226	O	THR	A	416	15.257	64.120	90.358	1.00	35.51	O
ATOM	3227	CB	THR	A	416	18.435	65.168	90.517	1.00	36.24	C
ATOM	3228	OG1	THR	A	416	18.136	65.023	91.908	1.00	36.09	O
ATOM	3229	CG2	THR	A	416	19.422	66.306	90.332	1.00	37.28	C
ATOM	3230	N	ALA	A	417	16.640	63.236	88.828	1.00	34.91	N
ATOM	3231	CA	ALA	A	417	15.825	62.035	88.642	1.00	35.52	C
ATOM	3232	C	ALA	A	417	16.158	60.759	89.425	1.00	36.33	C
ATOM	3233	O	ALA	A	417	15.277	60.184	90.073	1.00	35.39	O
ATOM	3234	CB	ALA	A	417	15.755	61.705	87.153	1.00	34.48	C
ATOM	3235	N	LEU	A	418	17.405	60.301	89.363	1.00	36.81	N
ATOM	3236	CA	LEU	A	418	17.774	59.063	90.055	1.00	37.75	C
ATOM	3237	C	LEU	A	418	17.581	59.056	91.576	1.00	37.57	C
ATOM	3238	O	LEU	A	418	17.130	58.055	92.136	1.00	37.55	O
ATOM	3239	CB	LEU	A	418	19.211	58.657	89.699	1.00	36.68	C



ATOM	3240	CG	LEU	A	418	19.436	58.233	88.239	1.00	37.72	C
ATOM	3241	CD1	LEU	A	418	20.860	57.717	88.064	1.00	37.38	C
ATOM	3242	CD2	LEU	A	418	18.438	57.146	87.849	1.00	36.88	C
ATOM	3243	N	THR	A	419	17.911	60.158	92.246	1.00	37.57	N
ATOM	3244	CA	THR	A	419	17.742	60.227	93.698	1.00	36.87	C
ATOM	3245	C	THR	A	419	16.261	60.053	94.032	1.00	36.37	C
ATOM	3246	O	THR	A	419	15.425	60.840	93.589	1.00	35.42	O
ATOM	3247	CB	THR	A	419	18.230	61.583	94.260	1.00	36.89	C
ATOM	3248	OG1	THR	A	419	19.629	61.737	93.986	1.00	36.37	O
ATOM	3249	CG2	THR	A	419	18.000	61.657	95.765	1.00	35.40	C
ATOM	3250	N	GLY	A	420	15.942	59.014	94.799	1.00	35.79	N
ATOM	3251	CA	GLY	A	420	14.560	58.766	95.170	1.00	35.63	C
ATOM	3252	C	GLY	A	420	13.780	57.933	94.166	1.00	35.63	C
ATOM	3253	O	GLY	A	420	12.557	57.813	94.270	1.00	35.20	O
ATOM	3254	N	SER	A	421	14.481	57.360	93.189	1.00	35.48	N
ATOM	3255	CA	SER	A	421	13.840	56.532	92.168	1.00	34.82	C
ATOM	3256	C	SER	A	421	13.738	55.087	92.647	1.00	34.19	C
ATOM	3257	O	SER	A	421	14.529	54.645	93.479	1.00	33.61	O
ATOM	3258	CB	SER	A	421	14.639	56.578	90.859	1.00	34.21	C
ATOM	3259	OG	SER	A	421	15.902	55.948	91.005	1.00	30.60	O
ATOM	3260	N	THR	A	422	12.764	54.353	92.117	1.00	34.27	N
ATOM	3261	CA	THR	A	422	12.582	52.960	92.497	1.00	34.67	C
ATOM	3262	C	THR	A	422	13.787	52.116	92.086	1.00	34.53	C
ATOM	3263	O	THR	A	422	14.087	51.108	92.725	1.00	33.51	O
ATOM	3264	CB	THR	A	422	11.308	52.361	91.863	1.00	35.06	C
ATOM	3265	OG1	THR	A	422	11.379	52.462	90.434	1.00	35.65	O
ATOM	3266	CG2	THR	A	422	10.079	53.095	92.362	1.00	35.00	C
ATOM	3267	N	GLU	A	423	14.475	52.531	91.024	1.00	33.78	N
ATOM	3268	CA	GLU	A	423	15.651	51.808	90.542	1.00	34.84	C
ATOM	3269	C	GLU	A	423	16.764	51.875	91.594	1.00	37.17	C
ATOM	3270	O	GLU	A	423	17.491	50.902	91.827	1.00	35.29	O
ATOM	3271	CB	GLU	A	423	16.136	52.414	89.219	1.00	33.11	C
ATOM	3272	CG	GLU	A	423	17.455	51.841	88.693	1.00	31.37	C
ATOM	3273	CD	GLU	A	423	17.727	52.226	87.242	1.00	30.44	C
ATOM	3274	OE1	GLU	A	423	16.973	51.774	86.352	1.00	28.27	O
ATOM	3275	OE2	GLU	A	423	18.691	52.982	86.991	1.00	27.12	O
ATOM	3276	N	GLU	A	424	16.888	53.034	92.226	1.00	37.65	N
ATOM	3277	CA	GLU	A	424	17.887	53.236	93.256	1.00	40.03	C
ATOM	3278	C	GLU	A	424	17.525	52.434	94.502	1.00	39.99	C
ATOM	3279	O	GLU	A	424	18.398	51.896	95.177	1.00	39.04	O
ATOM	3280	CB	GLU	A	424	17.978	54.724	93.596	1.00	42.45	C
ATOM	3281	CG	GLU	A	424	18.782	55.041	94.844	1.00	46.47	C
ATOM	3282	CD	GLU	A	424	18.857	56.533	95.118	1.00	48.71	C
ATOM	3283	OE1	GLU	A	424	19.602	57.230	94.395	1.00	49.41	O
ATOM	3284	OE2	GLU	A	424	18.162	57.009	96.047	1.00	49.10	O
ATOM	3285	N	GLY	A	425	16.232	52.334	94.791	1.00	40.05	N
ATOM	3286	CA	GLY	A	425	15.807	51.608	95.975	1.00	42.38	C
ATOM	3287	C	GLY	A	425	15.352	50.170	95.801	1.00	43.01	C
ATOM	3288	O	GLY	A	425	15.013	49.513	96.788	1.00	43.78	O
ATOM	3289	N	GLN	A	426	15.347	49.663	94.572	1.00	42.11	N
ATOM	3290	CA	GLN	A	426	14.899	48.291	94.342	1.00	41.63	C
ATOM	3291	C	GLN	A	426	15.829	47.433	93.493	1.00	41.53	C
ATOM	3292	O	GLN	A	426	15.588	46.233	93.332	1.00	41.70	O
ATOM	3293	CB	GLN	A	426	13.504	48.300	93.715	1.00	39.54	C
ATOM	3294	CG	GLN	A	426	12.404	48.728	94.671	1.00	38.20	C
ATOM	3295	CD	GLN	A	426	11.033	48.707	94.020	1.00	38.02	C
ATOM	3296	OE1	GLN	A	426	10.702	47.780	93.273	1.00	35.19	O
ATOM	3297	NE2	GLN	A	426	10.222	49.724	94.310	1.00	36.27	N
ATOM	3298	N	PHE	A	427	16.882	48.039	92.953	1.00	40.73	N
ATOM	3299	CA	PHE	A	427	17.838	47.312	92.119	1.00	41.55	C
ATOM	3300	C	PHE	A	427	19.273	47.445	92.640	1.00	42.86	C
ATOM	3301	O	PHE	A	427	19.966	46.408	92.727	1.00	42.98	O
ATOM	3302	CB	PHE	A	427	17.772	47.807	90.667	1.00	39.75	C
ATOM	3303	CG	PHE	A	427	16.464	47.511	89.974	1.00	38.68	C
ATOM	3304	CD1	PHE	A	427	15.283	48.126	90.383	1.00	37.76	C
ATOM	3305	CD2	PHE	A	427	16.419	46.628	88.899	1.00	36.23	C
ATOM	3306	CE1	PHE	A	427	14.077	47.866	89.728	1.00	37.46	C
ATOM	3307	CE2	PHE	A	427	15.221	46.364	88.241	1.00	36.61	C
ATOM	3308	CZ	PHE	A	427	14.049	46.983	88.656	1.00	36.19	C
TER	3309	PHE	A	427							
ATOM	3310	N	ALA	B	1	-16.768	73.502	46.033	1.00	48.03	N
ATOM	3311	CA	ALA	B	1	-18.188	73.081	46.215	1.00	47.43	C
ATOM	3312	C	ALA	B	1	-18.298	71.572	46.377	1.00	45.87	C
ATOM	3313	O	ALA	B	1	-18.205	70.821	45.406	1.00	46.64	O
ATOM	3314	CB	ALA	B	1	-19.026	73.540	45.024	1.00	49.37	C
ATOM	3315	N	SER	B	2	-18.501	71.134	47.612	1.00	43.44	N
ATOM	3316	CA	SER	B	2	-18.623	69.717	47.903	1.00	41.24	C
ATOM	3317	C	SER	B	2	-19.185	69.552	49.301	1.00	39.55	C
ATOM	3318	O	SER	B	2	-18.959	70.394	50.171	1.00	39.50	O
ATOM	3319	CB	SER	B	2	-17.255	69.037	47.815	1.00	40.14	C



ATOM	3320	OG	SER	B	2	-17.336	67.681	48.206	1.00	37.12	O
ATOM	3321	N	VAL	B	3	-19.925	68.474	49.513	1.00	36.40	N
ATOM	3322	CA	VAL	B	3	-20.501	68.218	50.821	1.00	35.74	C
ATOM	3323	C	VAL	B	3	-19.661	67.195	51.583	1.00	33.71	C
ATOM	3324	O	VAL	B	3	-20.002	66.805	52.698	1.00	33.53	O
ATOM	3325	CB	VAL	B	3	-21.962	67.729	50.697	1.00	36.53	C
ATOM	3326	CG1	VAL	B	3	-22.817	68.831	50.096	1.00	37.40	C
ATOM	3327	CG2	VAL	B	3	-22.036	66.503	49.816	1.00	37.04	C
ATOM	3328	N	VAL	B	4	-18.554	66.774	50.976	1.00	31.83	N
ATOM	3329	CA	VAL	B	4	-17.655	65.812	51.605	1.00	29.60	C
ATOM	3330	C	VAL	B	4	-17.016	66.436	52.840	1.00	29.07	C
ATOM	3331	O	VAL	B	4	-16.441	67.523	52.772	1.00	27.93	O
ATOM	3332	CB	VAL	B	4	-16.527	65.368	50.638	1.00	29.63	C
ATOM	3333	CG1	VAL	B	4	-15.563	64.424	51.347	1.00	29.22	C
ATOM	3334	CG2	VAL	B	4	-17.127	64.681	49.421	1.00	29.63	C
ATOM	3335	N	GLY	B	5	-17.140	65.752	53.972	1.00	28.85	N
ATOM	3336	CA	GLY	B	5	-16.553	66.243	55.206	1.00	28.77	C
ATOM	3337	C	GLY	B	5	-17.273	67.400	55.870	1.00	29.84	C
ATOM	3338	O	GLY	B	5	-16.726	68.020	56.786	1.00	27.54	O
ATOM	3339	N	THR	B	6	-18.494	67.695	55.426	1.00	30.01	N
ATOM	3340	CA	THR	B	6	-19.256	68.800	56.008	1.00	30.34	C
ATOM	3341	C	THR	B	6	-19.432	68.558	57.501	1.00	28.90	C
ATOM	3342	O	THR	B	6	-19.735	67.449	57.926	1.00	28.57	O
ATOM	3343	CB	THR	B	6	-20.654	68.945	55.358	1.00	32.17	C
ATOM	3344	OG1	THR	B	6	-20.508	69.164	53.949	1.00	32.45	O
ATOM	3345	CG2	THR	B	6	-21.398	70.129	55.962	1.00	32.09	C
ATOM	3346	N	PRO	B	7	-19.246	69.604	58.317	1.00	29.39	N
ATOM	3347	CA	PRO	B	7	-19.378	69.504	59.775	1.00	30.27	C
ATOM	3348	C	PRO	B	7	-20.799	69.216	60.253	1.00	30.31	C
ATOM	3349	O	PRO	B	7	-21.770	69.625	59.618	1.00	30.35	O
ATOM	3350	CB	PRO	B	7	-18.894	70.870	60.259	1.00	29.63	C
ATOM	3351	CG	PRO	B	7	-18.003	71.344	59.142	1.00	29.54	C
ATOM	3352	CD	PRO	B	7	-18.775	70.942	57.932	1.00	28.25	C
ATOM	3353	N	LYS	B	8	-20.909	68.505	61.372	1.00	30.32	N
ATOM	3354	CA	LYS	B	8	-22.206	68.194	61.962	1.00	29.25	C
ATOM	3355	C	LYS	B	8	-22.728	69.492	62.553	1.00	30.59	C
ATOM	3356	O	LYS	B	8	-21.961	70.432	62.778	1.00	31.06	O
ATOM	3357	CB	LYS	B	8	-22.065	67.173	63.092	1.00	30.27	C
ATOM	3358	CG	LYS	B	8	-21.666	65.774	62.674	1.00	28.99	C
ATOM	3359	CD	LYS	B	8	-21.380	64.919	63.904	1.00	28.48	C
ATOM	3360	CE	LYS	B	8	-21.005	63.496	63.510	1.00	30.35	C
ATOM	3361	NZ	LYS	B	8	-20.547	62.701	64.679	1.00	32.11	N
ATOM	3362	N	SER	B	9	-24.030	69.553	62.804	1.00	30.76	N
ATOM	3363	CA	SER	B	9	-24.616	70.752	63.392	1.00	29.74	C
ATOM	3364	C	SER	B	9	-24.413	70.649	64.897	1.00	29.20	C
ATOM	3365	O	SER	B	9	-24.244	69.551	65.425	1.00	29.84	O
ATOM	3366	CB	SER	B	9	-26.116	70.830	63.084	1.00	28.25	C
ATOM	3367	OG	SER	B	9	-26.826	69.791	63.739	1.00	26.42	O
ATOM	3368	N	ALA	B	10	-24.428	71.788	65.579	1.00	29.87	N
ATOM	3369	CA	ALA	B	10	-24.266	71.805	67.025	1.00	30.94	C
ATOM	3370	C	ALA	B	10	-25.357	70.957	67.671	1.00	32.47	C
ATOM	3371	O	ALA	B	10	-25.127	70.310	68.697	1.00	33.06	O
ATOM	3372	CB	ALA	B	10	-24.341	73.230	67.541	1.00	30.72	C
ATOM	3373	N	GLU	B	11	-26.540	70.962	67.061	1.00	33.60	N
ATOM	3374	CA	GLU	B	11	-27.680	70.199	67.561	1.00	35.45	C
ATOM	3375	C	GLU	B	11	-27.393	68.700	67.547	1.00	34.94	C
ATOM	3376	O	GLU	B	11	-27.681	67.995	68.519	1.00	34.36	O
ATOM	3377	CB	GLU	B	11	-28.935	70.478	66.713	1.00	38.67	C
ATOM	3378	CG	GLU	B	11	-29.470	71.911	66.776	1.00	42.85	C
ATOM	3379	CD	GLU	B	11	-28.492	72.940	66.215	1.00	45.87	C
ATOM	3380	OE1	GLU	B	11	-28.012	72.757	65.075	1.00	45.88	O
ATOM	3381	OE2	GLU	B	11	-28.207	73.937	66.912	1.00	48.01	O
ATOM	3382	N	GLN	B	12	-26.837	68.218	66.440	1.00	34.03	N
ATOM	3383	CA	GLN	B	12	-26.515	66.801	66.304	1.00	35.52	C
ATOM	3384	C	GLN	B	12	-25.497	66.396	67.361	1.00	33.75	C
ATOM	3385	O	GLN	B	12	-25.623	65.350	67.998	1.00	33.21	O
ATOM	3386	CB	GLN	B	12	-25.938	66.514	64.916	1.00	37.39	C
ATOM	3387	CG	GLN	B	12	-26.832	66.934	63.767	1.00	40.56	C
ATOM	3388	CD	GLN	B	12	-26.187	66.684	62.419	1.00	41.50	C
ATOM	3389	OE1	GLN	B	12	-25.847	65.549	62.087	1.00	43.34	O
ATOM	3390	NE2	GLN	B	12	-26.013	67.744	61.637	1.00	41.26	N
ATOM	3391	N	ILE	B	13	-24.482	67.235	67.532	1.00	33.66	N
ATOM	3392	CA	ILE	B	13	-23.430	66.982	68.506	1.00	33.52	C
ATOM	3393	C	ILE	B	13	-24.042	66.876	69.898	1.00	33.33	C
ATOM	3394	O	ILE	B	13	-23.786	65.926	70.636	1.00	31.92	O
ATOM	3395	CB	ILE	B	13	-22.380	68.123	68.494	1.00	32.85	C
ATOM	3396	CG1	ILE	B	13	-21.669	68.164	67.136	1.00	33.07	C
ATOM	3397	CG2	ILE	B	13	-21.366	67.912	69.608	1.00	32.70	C
ATOM	3398	CD1	ILE	B	13	-20.590	69.225	67.038	1.00	30.83	C
ATOM	3399	N	GLN	B	14	-24.860	67.862	70.242	1.00	34.49	N



ATOM	3400	CA	GLN	B	14	-25.517	67.905	71.542	1.00	35.69	C
ATOM	3401	C	GLN	B	14	-26.333	66.644	71.777	1.00	36.33	C
ATOM	3402	O	GLN	B	14	-26.335	66.084	72.873	1.00	37.18	O
ATOM	3403	CB	GLN	B	14	-26.435	69.122	71.623	1.00	35.09	C
ATOM	3404	CG	GLN	B	14	-27.075	69.309	72.976	1.00	35.95	C
ATOM	3405	CD	GLN	B	14	-26.045	69.498	74.068	1.00	37.46	C
ATOM	3406	OE1	GLN	B	14	-25.250	70.439	74.031	1.00	36.84	O
ATOM	3407	NE2	GLN	B	14	-26.048	68.600	75.047	1.00	36.21	N
ATOM	3408	N	GLN	B	15	-27.030	66.202	70.739	1.00	36.82	N
ATOM	3409	CA	GLN	B	15	-27.856	65.013	70.832	1.00	38.02	C
ATOM	3410	C	GLN	B	15	-27.030	63.777	71.162	1.00	37.47	C
ATOM	3411	O	GLN	B	15	-27.421	62.971	72.005	1.00	37.45	O
ATOM	3412	CB	GLN	B	15	-28.609	64.808	69.525	1.00	40.14	C
ATOM	3413	CG	GLN	B	15	-29.349	63.498	69.445	1.00	45.17	C
ATOM	3414	CD	GLN	B	15	-30.158	63.393	68.178	1.00	49.69	C
ATOM	3415	OE1	GLN	B	15	-31.129	64.130	67.987	1.00	51.83	O
ATOM	3416	NE2	GLN	B	15	-29.757	62.485	67.291	1.00	50.73	N
ATOM	3417	N	GLU	B	16	-25.892	63.629	70.491	1.00	37.26	N
ATOM	3418	CA	GLU	B	16	-25.012	62.492	70.731	1.00	36.83	C
ATOM	3419	C	GLU	B	16	-24.541	62.500	72.175	1.00	35.49	C
ATOM	3420	O	GLU	B	16	-24.488	61.462	72.831	1.00	36.40	O
ATOM	3421	CB	GLU	B	16	-23.803	62.548	69.793	1.00	38.30	C
ATOM	3422	CG	GLU	B	16	-24.105	62.103	68.374	1.00	42.46	C
ATOM	3423	CD	GLU	B	16	-22.977	62.409	67.408	1.00	45.86	C
ATOM	3424	OE1	GLU	B	16	-21.808	62.099	67.731	1.00	47.98	O
ATOM	3425	OE2	GLU	B	16	-23.262	62.956	66.321	1.00	46.56	O
ATOM	3426	N	TRP	B	17	-24.206	63.684	72.669	1.00	34.21	N
ATOM	3427	CA	TRP	B	17	-23.736	63.829	74.036	1.00	33.81	C
ATOM	3428	C	TRP	B	17	-24.803	63.444	75.055	1.00	34.59	C
ATOM	3429	O	TRP	B	17	-24.488	62.894	76.113	1.00	34.35	O
ATOM	3430	CB	TRP	B	17	-23.285	65.273	74.291	1.00	31.59	C
ATOM	3431	CG	TRP	B	17	-22.040	65.672	73.549	1.00	31.15	C
ATOM	3432	CD1	TRP	B	17	-21.250	64.871	72.771	1.00	30.71	C
ATOM	3433	CD2	TRP	B	17	-21.433	66.973	73.528	1.00	30.81	C
ATOM	3434	NE1	TRP	B	17	-20.191	65.593	72.267	1.00	30.43	N
ATOM	3435	CE2	TRP	B	17	-20.279	66.884	72.716	1.00	29.71	C
ATOM	3436	CE3	TRP	B	17	-21.752	68.205	74.119	1.00	29.83	C
ATOM	3437	CZ2	TRP	B	17	-19.443	67.980	72.478	1.00	29.37	C
ATOM	3438	CZ3	TRP	B	17	-20.921	69.295	73.883	1.00	28.67	C
ATOM	3439	CH2	TRP	B	17	-19.779	69.173	73.068	1.00	29.80	C
ATOM	3440	N	ASP	B	18	-26.064	63.724	74.733	1.00	35.18	N
ATOM	3441	CA	ASP	B	18	-27.163	63.427	75.648	1.00	35.42	C
ATOM	3442	C	ASP	B	18	-27.730	62.026	75.545	1.00	34.85	C
ATOM	3443	O	ASP	B	18	-28.373	61.552	76.478	1.00	36.17	O
ATOM	3444	CB	ASP	B	18	-28.318	64.409	75.445	1.00	35.64	C
ATOM	3445	CG	ASP	B	18	-27.889	65.847	75.565	1.00	36.03	C
ATOM	3446	OD1	ASP	B	18	-27.045	66.148	76.433	1.00	36.11	O
ATOM	3447	OD2	ASP	B	18	-28.412	66.678	74.796	1.00	37.34	O
ATOM	3448	N	THR	B	19	-27.497	61.360	74.423	1.00	35.08	N
ATOM	3449	CA	THR	B	19	-28.054	60.029	74.234	1.00	35.86	C
ATOM	3450	C	THR	B	19	-27.070	58.867	74.208	1.00	35.56	C
ATOM	3451	O	THR	B	19	-27.392	57.774	74.681	1.00	35.09	O
ATOM	3452	CB	THR	B	19	-28.900	59.979	72.950	1.00	36.23	C
ATOM	3453	OG1	THR	B	19	-28.072	60.237	71.809	1.00	35.75	O
ATOM	3454	CG2	THR	B	19	-29.984	61.025	73.014	1.00	36.23	C
ATOM	3455	N	ASN	B	20	-25.880	59.087	73.660	1.00	34.28	N
ATOM	3456	CA	ASN	B	20	-24.896	58.015	73.597	1.00	33.04	C
ATOM	3457	C	ASN	B	20	-24.373	57.658	74.991	1.00	32.19	C
ATOM	3458	O	ASN	B	20	-23.857	58.511	75.705	1.00	33.04	O
ATOM	3459	CB	ASN	B	20	-23.724	58.410	72.700	1.00	32.41	C
ATOM	3460	CG	ASN	B	20	-22.869	57.218	72.322	1.00	33.32	C
ATOM	3461	OD1	ASN	B	20	-22.623	56.336	73.145	1.00	32.44	O
ATOM	3462	ND2	ASN	B	20	-22.406	57.185	71.077	1.00	33.47	N
ATOM	3463	N	PRO	B	21	-24.506	56.385	75.394	1.00	32.08	N
ATOM	3464	CA	PRO	B	21	-24.045	55.912	76.707	1.00	31.71	C
ATOM	3465	C	PRO	B	21	-22.552	56.179	76.910	1.00	31.33	C
ATOM	3466	O	PRO	B	21	-22.065	56.216	78.041	1.00	30.67	O
ATOM	3467	CB	PRO	B	21	-24.349	54.415	76.666	1.00	32.44	C
ATOM	3468	CG	PRO	B	21	-25.508	54.322	75.718	1.00	33.36	C
ATOM	3469	CD	PRO	B	21	-25.123	55.287	74.630	1.00	32.05	C
ATOM	3470	N	ARG	B	22	-21.833	56.351	75.804	1.00	30.07	N
ATOM	3471	CA	ARG	B	22	-20.401	56.621	75.853	1.00	29.02	C
ATOM	3472	C	ARG	B	22	-20.115	57.818	76.746	1.00	28.75	C
ATOM	3473	O	ARG	B	22	-19.164	57.810	77.526	1.00	29.52	O
ATOM	3474	CB	ARG	B	22	-19.869	56.903	74.447	1.00	26.95	C
ATOM	3475	CG	ARG	B	22	-18.416	57.377	74.395	1.00	26.21	C
ATOM	3476	CD	ARG	B	22	-17.448	56.294	74.845	1.00	25.42	C
ATOM	3477	NE	ARG	B	22	-16.054	56.722	74.741	1.00	25.51	N
ATOM	3478	CZ	ARG	B	22	-15.449	57.542	75.598	1.00	27.05	C
ATOM	3479	NH1	ARG	B	22	-16.111	58.035	76.643	1.00	26.79	N



ATOM	3480	NH2	ARG	B	22	-14.177	57.872	75.408	1.00	25.10	N
ATOM	3481	N	TRP	B	23	-20.957	58.839	76.633	1.00	30.04	N
ATOM	3482	CA	TRP	B	23	-20.799	60.073	77.400	1.00	30.91	C
ATOM	3483	C	TRP	B	23	-21.628	60.115	78.678	1.00	31.31	C
ATOM	3484	O	TRP	B	23	-21.866	61.187	79.231	1.00	31.78	O
ATOM	3485	CB	TRP	B	23	-21.173	61.258	76.514	1.00	28.60	C
ATOM	3486	CG	TRP	B	23	-20.573	61.150	75.154	1.00	29.43	C
ATOM	3487	CD1	TRP	B	23	-21.239	61.091	73.965	1.00	30.26	C
ATOM	3488	CD2	TRP	B	23	-19.180	61.075	74.838	1.00	28.95	C
ATOM	3489	NE1	TRP	B	23	-20.345	60.983	72.926	1.00	30.70	N
ATOM	3490	CE2	TRP	B	23	-19.074	60.972	73.435	1.00	28.84	C
ATOM	3491	CE3	TRP	B	23	-18.010	61.083	75.606	1.00	26.93	C
ATOM	3492	CZ2	TRP	B	23	-17.844	60.878	72.783	1.00	27.98	C
ATOM	3493	CZ3	TRP	B	23	-16.786	60.990	74.957	1.00	27.34	C
ATOM	3494	CH2	TRP	B	23	-16.714	60.889	73.560	1.00	27.23	C
ATOM	3495	N	LYS	B	24	-22.053	58.950	79.151	1.00	33.01	N
ATOM	3496	CA	LYS	B	24	-22.867	58.873	80.359	1.00	35.68	C
ATOM	3497	C	LYS	B	24	-22.289	59.651	81.540	1.00	36.27	C
ATOM	3498	O	LYS	B	24	-22.993	60.438	82.179	1.00	36.38	O
ATOM	3499	CB	LYS	B	24	-23.065	57.413	80.771	1.00	37.02	C
ATOM	3500	CG	LYS	B	24	-23.869	57.248	82.051	1.00	41.80	C
ATOM	3501	CD	LYS	B	24	-23.963	55.788	82.492	1.00	44.47	C
ATOM	3502	CE	LYS	B	24	-22.595	55.219	82.849	1.00	47.11	C
ATOM	3503	NZ	LYS	B	24	-22.663	53.823	83.374	1.00	47.83	N
ATOM	3504	N	ASP	B	25	-21.009	59.432	81.828	1.00	35.85	N
ATOM	3505	CA	ASP	B	25	-20.360	60.101	82.955	1.00	36.42	C
ATOM	3506	C	ASP	B	25	-19.332	61.156	82.544	1.00	34.19	C
ATOM	3507	O	ASP	B	25	-18.459	61.513	83.331	1.00	32.41	O
ATOM	3508	CB	ASP	B	25	-19.667	59.063	83.842	1.00	38.03	C
ATOM	3509	CG	ASP	B	25	-20.592	57.934	84.255	1.00	39.68	C
ATOM	3510	OD1	ASP	B	25	-21.591	58.212	84.956	1.00	40.44	O
ATOM	3511	OD2	ASP	B	25	-20.314	56.771	83.880	1.00	37.05	O
ATOM	3512	N	VAL	B	26	-19.436	61.658	81.321	1.00	32.96	N
ATOM	3513	CA	VAL	B	26	-18.483	62.651	80.850	1.00	31.54	C
ATOM	3514	C	VAL	B	26	-18.999	64.073	80.974	1.00	30.47	C
ATOM	3515	O	VAL	B	26	-20.077	64.403	80.492	1.00	30.57	O
ATOM	3516	CB	VAL	B	26	-18.094	62.385	79.380	1.00	31.46	C
ATOM	3517	CG1	VAL	B	26	-17.131	63.453	78.887	1.00	29.70	C
ATOM	3518	CG2	VAL	B	26	-17.465	61.005	79.260	1.00	30.53	C
ATOM	3519	N	THR	B	27	-18.213	64.911	81.633	1.00	30.67	N
ATOM	3520	CA	THR	B	27	-18.558	66.312	81.816	1.00	29.51	C
ATOM	3521	C	THR	B	27	-17.739	67.151	80.847	1.00	29.28	C
ATOM	3522	O	THR	B	27	-16.536	66.939	80.705	1.00	29.15	O
ATOM	3523	CB	THR	B	27	-18.242	66.783	83.246	1.00	29.46	C
ATOM	3524	OG1	THR	B	27	-19.085	66.090	84.170	1.00	31.50	O
ATOM	3525	CG2	THR	B	27	-18.456	68.284	83.378	1.00	28.75	C
ATOM	3526	N	ARG	B	28	-18.401	68.096	80.186	1.00	28.78	N
ATOM	3527	CA	ARG	B	28	-17.759	68.997	79.233	1.00	27.61	C
ATOM	3528	C	ARG	B	28	-18.084	70.428	79.655	1.00	27.59	C
ATOM	3529	O	ARG	B	28	-19.246	70.822	79.655	1.00	27.34	O
ATOM	3530	CB	ARG	B	28	-18.291	68.749	77.817	1.00	25.02	C
ATOM	3531	CG	ARG	B	28	-17.876	67.424	77.175	1.00	25.28	C
ATOM	3532	CD	ARG	B	28	-18.571	67.264	75.824	1.00	26.27	C
ATOM	3533	NE	ARG	B	28	-17.956	66.273	74.944	1.00	25.40	N
ATOM	3534	CZ	ARG	B	28	-18.165	64.963	75.014	1.00	26.64	C
ATOM	3535	NH1	ARG	B	28	-18.980	64.462	75.931	1.00	28.47	N
ATOM	3536	NH2	ARG	B	28	-17.574	64.152	74.148	1.00	28.58	N
ATOM	3537	N	THR	B	29	-17.061	71.205	80.007	1.00	28.44	N
ATOM	3538	CA	THR	B	29	-17.272	72.582	80.440	1.00	28.55	C
ATOM	3539	C	THR	B	29	-17.381	73.589	79.293	1.00	28.97	C
ATOM	3540	O	THR	B	29	-17.317	74.799	79.518	1.00	28.48	O
ATOM	3541	CB	THR	B	29	-16.166	73.050	81.434	1.00	29.81	C
ATOM	3542	OG1	THR	B	29	-14.885	73.029	80.793	1.00	31.95	O
ATOM	3543	CG2	THR	B	29	-16.129	72.138	82.661	1.00	27.48	C
ATOM	3544	N	TYR	B	30	-17.532	73.087	78.068	1.00	27.63	N
ATOM	3545	CA	TYR	B	30	-17.700	73.948	76.900	1.00	25.68	C
ATOM	3546	C	TYR	B	30	-18.946	73.466	76.170	1.00	25.23	C
ATOM	3547	O	TYR	B	30	-19.468	72.401	76.479	1.00	23.93	O
ATOM	3548	CB	TYR	B	30	-16.470	73.898	75.982	1.00	25.47	C
ATOM	3549	CG	TYR	B	30	-15.978	72.506	75.661	1.00	25.75	C
ATOM	3550	CD1	TYR	B	30	-16.702	71.659	74.822	1.00	24.61	C
ATOM	3551	CD2	TYR	B	30	-14.796	72.029	76.220	1.00	25.02	C
ATOM	3552	CE1	TYR	B	30	-16.258	70.360	74.549	1.00	25.59	C
ATOM	3553	CE2	TYR	B	30	-14.342	70.742	75.959	1.00	25.87	C
ATOM	3554	CZ	TYR	B	30	-15.074	69.908	75.123	1.00	26.86	C
ATOM	3555	OH	TYR	B	30	-14.614	68.632	74.871	1.00	22.91	O
ATOM	3556	N	SER	B	31	-19.422	74.241	75.201	1.00	26.08	N
ATOM	3557	CA	SER	B	31	-20.640	73.881	74.478	1.00	27.02	C
ATOM	3558	C	SER	B	31	-20.408	73.190	73.149	1.00	27.74	C
ATOM	3559	O	SER	B	31	-19.297	73.179	72.621	1.00	28.87	C



ATOM	3560	CB	SER	B	31	-21.489	75.128	74.230	1.00	26.61	C
ATOM	3561	OG	SER	B	31	-20.860	75.986	73.286	1.00	27.12	O
ATOM	3562	N	ALA	B	32	-21.480	72.617	72.613	1.00	28.51	N
ATOM	3563	CA	ALA	B	32	-21.428	71.940	71.327	1.00	30.25	C
ATOM	3564	C	ALA	B	32	-21.124	72.999	70.272	1.00	31.04	C
ATOM	3565	O	ALA	B	32	-20.396	72.745	69.312	1.00	31.84	O
ATOM	3566	CB	ALA	B	32	-22.766	71.266	71.034	1.00	28.30	C
ATOM	3567	N	GLU	B	33	-21.679	74.192	70.470	1.00	32.07	N
ATOM	3568	CA	GLU	B	33	-21.467	75.305	69.552	1.00	33.35	C
ATOM	3569	C	GLU	B	33	-19.981	75.630	69.488	1.00	31.26	C
ATOM	3570	O	GLU	B	33	-19.444	75.924	68.419	1.00	31.62	O
ATOM	3571	CB	GLU	B	33	-22.243	76.546	70.017	1.00	36.45	C
ATOM	3572	CG	GLU	B	33	-23.766	76.395	70.012	1.00	42.31	C
ATOM	3573	CD	GLU	B	33	-24.259	75.307	70.959	1.00	46.19	C
ATOM	3574	OE1	GLU	B	33	-23.965	75.392	72.173	1.00	47.12	O
ATOM	3575	OE2	GLU	B	33	-24.942	74.366	70.487	1.00	48.68	O
ATOM	3576	N	ASP	B	34	-19.322	75.574	70.641	1.00	30.02	N
ATOM	3577	CA	ASP	B	34	-17.896	75.861	70.712	1.00	28.57	C
ATOM	3578	C	ASP	B	34	-17.107	74.917	69.818	1.00	27.27	C
ATOM	3579	O	ASP	B	34	-16.207	75.346	69.107	1.00	28.44	O
ATOM	3580	CB	ASP	B	34	-17.387	75.748	72.152	1.00	27.21	C
ATOM	3581	CG	ASP	B	34	-17.911	76.854	73.043	1.00	28.65	C
ATOM	3582	OD1	ASP	B	34	-18.072	77.989	72.544	1.00	29.76	O
ATOM	3583	OD2	ASP	B	34	-18.146	76.596	74.244	1.00	29.69	O
ATOM	3584	N	VAL	B	35	-17.446	73.632	69.857	1.00	26.01	N
ATOM	3585	CA	VAL	B	35	-16.758	72.641	69.033	1.00	24.51	C
ATOM	3586	C	VAL	B	35	-16.922	72.980	67.553	1.00	25.65	C
ATOM	3587	O	VAL	B	35	-15.937	73.112	66.826	1.00	26.39	O
ATOM	3588	CB	VAL	B	35	-17.308	71.215	69.287	1.00	22.72	C
ATOM	3589	CG1	VAL	B	35	-16.555	70.210	68.442	1.00	19.00	C
ATOM	3590	CG2	VAL	B	35	-17.183	70.862	70.767	1.00	20.41	C
ATOM	3591	N	VAL	B	36	-18.169	73.130	67.115	1.00	25.53	N
ATOM	3592	CA	VAL	B	36	-18.464	73.453	65.722	1.00	23.55	C
ATOM	3593	C	VAL	B	36	-17.681	74.670	65.238	1.00	22.67	C
ATOM	3594	O	VAL	B	36	-17.129	74.665	64.138	1.00	22.38	O
ATOM	3595	CB	VAL	B	36	-19.972	73.730	65.529	1.00	25.25	C
ATOM	3596	CG1	VAL	B	36	-20.238	74.227	64.117	1.00	25.17	C
ATOM	3597	CG2	VAL	B	36	-20.771	72.462	65.809	1.00	24.65	C
ATOM	3598	N	ALA	B	37	-17.634	75.710	66.065	1.00	21.96	N
ATOM	3599	CA	ALA	B	37	-16.928	76.939	65.713	1.00	21.89	C
ATOM	3600	C	ALA	B	37	-15.441	76.728	65.417	1.00	22.71	C
ATOM	3601	O	ALA	B	37	-14.801	77.577	64.800	1.00	24.67	O
ATOM	3602	CB	ALA	B	37	-17.093	77.970	66.832	1.00	21.37	C
ATOM	3603	N	LEU	B	38	-14.891	75.598	65.847	1.00	22.81	N
ATOM	3604	CA	LEU	B	38	-13.475	75.318	65.625	1.00	22.65	C
ATOM	3605	C	LEU	B	38	-13.226	74.325	64.492	1.00	23.20	C
ATOM	3606	O	LEU	B	38	-12.075	74.039	64.158	1.00	23.03	O
ATOM	3607	CB	LEU	B	38	-12.836	74.776	66.911	1.00	18.32	C
ATOM	3608	CG	LEU	B	38	-12.756	75.721	68.108	1.00	15.88	C
ATOM	3609	CD1	LEU	B	38	-12.348	74.944	69.354	1.00	16.59	C
ATOM	3610	CD2	LEU	B	38	-11.763	76.834	67.815	1.00	14.75	C
ATOM	3611	N	GLN	B	39	-14.295	73.819	63.888	1.00	22.82	N
ATOM	3612	CA	GLN	B	39	-14.155	72.825	62.829	1.00	23.48	C
ATOM	3613	C	GLN	B	39	-13.999	73.346	61.407	1.00	23.58	C
ATOM	3614	O	GLN	B	39	-13.857	72.555	60.470	1.00	23.56	O
ATOM	3615	CB	GLN	B	39	-15.336	71.849	62.882	1.00	22.15	C
ATOM	3616	CG	GLN	B	39	-15.445	71.118	64.202	1.00	23.97	C
ATOM	3617	CD	GLN	B	39	-16.572	70.117	64.227	1.00	23.82	C
ATOM	3618	OE1	GLN	B	39	-17.697	70.430	63.852	1.00	28.89	O
ATOM	3619	NE2	GLN	B	39	-16.280	68.907	64.688	1.00	21.94	N
ATOM	3620	N	GLY	B	40	-13.994	74.663	61.234	1.00	23.24	N
ATOM	3621	CA	GLY	B	40	-13.879	75.194	59.888	1.00	24.43	C
ATOM	3622	C	GLY	B	40	-15.083	74.727	59.085	1.00	25.07	C
ATOM	3623	O	GLY	B	40	-16.163	74.545	59.643	1.00	24.99	O
ATOM	3624	N	SER	B	41	-14.909	74.514	57.785	1.00	25.62	N
ATOM	3625	CA	SER	B	41	-16.010	74.062	56.936	1.00	25.80	C
ATOM	3626	C	SER	B	41	-15.816	72.621	56.462	1.00	25.25	C
ATOM	3627	O	SER	B	41	-16.652	72.072	55.735	1.00	23.29	O
ATOM	3628	CB	SER	B	41	-16.151	74.989	55.730	1.00	27.28	C
ATOM	3629	OG	SER	B	41	-14.907	75.145	55.076	1.00	29.53	O
ATOM	3630	N	VAL	B	42	-14.709	72.014	56.878	1.00	23.30	N
ATOM	3631	CA	VAL	B	42	-14.410	70.638	56.507	1.00	22.46	C
ATOM	3632	C	VAL	B	42	-13.802	69.887	57.681	1.00	22.12	C
ATOM	3633	O	VAL	B	42	-12.864	70.365	58.319	1.00	21.64	O
ATOM	3634	CB	VAL	B	42	-13.411	70.565	55.323	1.00	23.12	C
ATOM	3635	CG1	VAL	B	42	-13.151	69.113	54.957	1.00	21.54	C
ATOM	3636	CG2	VAL	B	42	-13.958	71.316	54.126	1.00	21.66	C
ATOM	3637	N	VAL	B	43	-14.348	68.714	57.972	1.00	21.54	N
ATOM	3638	CA	VAL	B	43	-13.833	67.888	59.052	1.00	21.68	C
ATOM	3639	C	VAL	B	43	-13.292	66.601	58.449	1.00	22.48	C



ATOM	3640	O	VAL	B	43	-14.007	65.865	57.766	1.00	21.18
ATOM	3641	CB	VAL	B	43	-14.926	67.530	60.083	1.00	23.09
ATOM	3642	CG1	VAL	B	43	-14.408	66.472	61.052	1.00	21.05
ATOM	3643	CG2	VAL	B	43	-15.335	68.774	60.854	1.00	24.13
ATOM	3644	N	GLU	B	44	-12.014	66.342	58.689	1.00	22.61
ATOM	3645	CA	GLU	B	44	-11.392	65.135	58.183	1.00	21.49
ATOM	3646	C	GLU	B	44	-11.874	63.947	58.988	1.00	21.21
ATOM	3647	O	GLU	B	44	-12.010	64.033	60.206	1.00	21.04
ATOM	3648	CB	GLU	B	44	-9.877	65.231	58.293	1.00	20.35
ATOM	3649	CG	GLU	B	44	-9.235	66.083	57.231	1.00	19.95
ATOM	3650	CD	GLU	B	44	-7.726	66.076	57.339	1.00	19.75
ATOM	3651	OE1	GLU	B	44	-7.192	66.765	58.229	1.00	20.61
ATOM	3652	OE2	GLU	B	44	-7.078	65.371	56.541	1.00	18.42
ATOM	3653	N	GLU	B	45	-12.143	62.845	58.300	1.00	20.36
ATOM	3654	CA	GLU	B	45	-12.582	61.626	58.956	1.00	20.71
ATOM	3655	C	GLU	B	45	-11.320	60.886	59.397	1.00	20.90
ATOM	3656	O	GLU	B	45	-10.377	60.725	58.612	1.00	21.49
ATOM	3657	CB	GLU	B	45	-13.398	60.762	57.984	1.00	21.58
ATOM	3658	CG	GLU	B	45	-13.755	59.357	58.487	1.00	24.58
ATOM	3659	CD	GLU	B	45	-14.536	59.350	59.804	1.00	28.67
ATOM	3660	OE1	GLU	B	45	-15.040	60.413	60.222	1.00	29.35
ATOM	3661	OE2	GLU	B	45	-14.654	58.270	60.423	1.00	31.41
ATOM	3662	N	HIS	B	46	-11.300	60.457	60.654	1.00	18.83
ATOM	3663	CA	HIS	B	46	-10.159	59.732	61.201	1.00	18.78
ATOM	3664	C	HIS	B	46	-10.601	58.306	61.502	1.00	18.51
ATOM	3665	O	HIS	B	46	-10.864	57.948	62.652	1.00	18.42
ATOM	3666	CB	HIS	B	46	-9.667	60.427	62.468	1.00	17.76
ATOM	3667	CG	HIS	B	46	-9.206	61.834	62.238	1.00	19.15
ATOM	3668	ND1	HIS	B	46	-8.143	62.142	61.416	1.00	18.66
ATOM	3669	CD2	HIS	B	46	-9.664	63.015	62.719	1.00	17.79
ATOM	3670	CE1	HIS	B	46	-7.966	63.451	61.401	1.00	18.42
ATOM	3671	NE2	HIS	B	46	-8.874	64.004	62.184	1.00	17.45
ATOM	3672	N	THR	B	47	-10.684	57.509	60.443	1.00	17.58
ATOM	3673	CA	THR	B	47	-11.121	56.113	60.506	1.00	17.30
ATOM	3674	C	THR	B	47	-10.505	55.259	61.621	1.00	18.72
ATOM	3675	O	THR	B	47	-11.223	54.681	62.445	1.00	18.87
ATOM	3676	CB	THR	B	47	-10.852	55.421	59.152	1.00	16.64
ATOM	3677	OG1	THR	B	47	-11.485	56.170	58.105	1.00	15.98
ATOM	3678	CG2	THR	B	47	-11.386	53.991	59.155	1.00	15.55
ATOM	3679	N	LEU	B	48	-9.179	55.177	61.645	1.00	17.38
ATOM	3680	CA	LEU	B	48	-8.499	54.370	62.645	1.00	17.41
ATOM	3681	C	LEU	B	48	-8.698	54.866	64.070	1.00	18.37
ATOM	3682	O	LEU	B	48	-8.746	54.057	65.002	1.00	18.03
ATOM</										



ATOM	3720	C	ALA	B	53	-12.957	53.436	70.600	1.00	20.67	C
ATOM	3721	O	ALA	B	53	-13.292	53.219	71.762	1.00	22.02	O
ATOM	3722	CB	ALA	B	53	-11.914	55.680	70.189	1.00	17.42	C
ATOM	3723	N	GLU	B	54	-13.690	53.046	69.561	1.00	20.49	N
ATOM	3724	CA	GLU	B	54	-14.946	52.327	69.768	1.00	21.71	C
ATOM	3725	C	GLU	B	54	-14.667	50.901	70.246	1.00	21.43	C
ATOM	3726	O	GLU	B	54	-15.319	50.407	71.167	1.00	19.68	O
ATOM	3727	CB	GLU	B	54	-15.774	52.312	68.474	1.00	22.94	C
ATOM	3728	CG	GLU	B	54	-16.400	53.663	68.134	1.00	24.46	C
ATOM	3729	CD	GLU	B	54	-17.217	53.639	66.850	1.00	28.56	C
ATOM	3730	OE1	GLU	B	54	-17.464	52.535	66.315	1.00	31.34	O
ATOM	3731	OE2	GLU	B	54	-17.618	54.725	66.379	1.00	28.23	O
ATOM	3732	N	VAL	B	55	-13.689	50.247	69.628	1.00	20.93	N
ATOM	3733	CA	VAL	B	55	-13.325	48.887	70.014	1.00	21.93	C
ATOM	3734	C	VAL	B	55	-12.771	48.871	71.436	1.00	22.60	C
ATOM	3735	O	VAL	B	55	-13.087	47.984	72.226	1.00	24.08	O
ATOM	3736	CB	VAL	B	55	-12.261	48.293	69.064	1.00	21.53	C
ATOM	3737	CG1	VAL	B	55	-11.743	46.969	69.612	1.00	19.69	C
ATOM	3738	CG2	VAL	B	55	-12.860	48.089	67.691	1.00	21.46	C
ATOM	3739	N	LEU	B	56	-11.947	49.859	71.764	1.00	22.64	N
ATOM	3740	CA	LEU	B	56	-11.371	49.927	73.099	1.00	23.16	C
ATOM	3741	C	LEU	B	56	-12.477	50.081	74.139	1.00	24.05	C
ATOM	3742	O	LEU	B	56	-12.530	49.338	75.121	1.00	22.80	O
ATOM	3743	CB	LEU	B	56	-10.396	51.101	73.202	1.00	20.83	C
ATOM	3744	CG	LEU	B	56	-9.728	51.273	74.565	1.00	20.87	C
ATOM	3745	CD1	LEU	B	56	-9.001	49.994	74.925	1.00	18.07	C
ATOM	3746	CD2	LEU	B	56	-8.770	52.459	74.537	1.00	20.50	C
ATOM	3747	N	TRP	B	57	-13.367	51.044	73.914	1.00	26.87	N
ATOM	3748	CA	TRP	B	57	-14.466	51.289	74.840	1.00	28.32	C
ATOM	3749	C	TRP	B	57	-15.255	50.008	75.059	1.00	28.59	C
ATOM	3750	O	TRP	B	57	-15.557	49.645	76.191	1.00	29.50	O
ATOM	3751	CB	TRP	B	57	-15.390	52.378	74.298	1.00	29.02	C
ATOM	3752	CG	TRP	B	57	-16.381	52.863	75.311	1.00	31.25	C
ATOM	3753	CD1	TRP	B	57	-17.740	52.721	75.268	1.00	31.05	C
ATOM	3754	CD2	TRP	B	57	-16.088	53.551	76.535	1.00	31.13	C
ATOM	3755	NE1	TRP	B	57	-18.310	53.278	76.391	1.00	30.62	N
ATOM	3756	CE2	TRP	B	57	-17.319	53.793	77.185	1.00	30.53	C
ATOM	3757	CE3	TRP	B	57	-14.904	53.986	77.146	1.00	29.93	C
ATOM	3758	CZ2	TRP	B	57	-17.401	54.451	78.418	1.00	31.21	C
ATOM	3759	CZ3	TRP	B	57	-14.986	54.642	78.371	1.00	30.84	C
ATOM	3760	CH2	TRP	B	57	-16.228	54.866	78.993	1.00	30.71	C
ATOM	3761	N	GLU	B	58	-15.581	49.323	73.969	1.00	29.22	N
ATOM	3762	CA	GLU	B	58	-16.324	48.074	74.058	1.00	31.77	C
ATOM	3763	C	GLU	B	58	-15.566	47.020	74.864	1.00	30.33	C
ATOM	3764	O	GLU	B	58	-16.102	46.463	75.825	1.00	28.87	O
ATOM	3765	CB	GLU	B	58	-16.622	47.521	72.661	1.00	35.07	C
ATOM	3766	CG	GLU	B	58	-17.768	48.204	71.940	1.00	40.99	C
ATOM	3767	CD	GLU	B	58	-17.993	47.633	70.548	1.00	46.88	C
ATOM	3768	OE1	GLU	B	58	-18.031	46.387	70.409	1.00	48.40	O
ATOM	3769	OE2	GLU	B	58	-18.140	48.431	69.593	1.00	50.28	O
ATOM	3770	N	GLN	B	59	-14.322	46.749	74.480	1.00	29.17	N
ATOM	3771	CA	GLN	B	59	-13.536	45.743	75.185	1.00	28.37	C
ATOM	3772	C	GLN	B	59	-13.453	46.051	76.676	1.00	27.33	C
ATOM	3773	O	GLN	B	59	-13.491	45.143	77.494	1.00	25.98	O
ATOM	3774	CB	GLN	B	59	-12.124	45.633	74.594	1.00	27.81	C
ATOM	3775	CG	GLN	B	59	-12.089	45.323	73.099	1.00	28.69	C
ATOM	3776	CD	GLN	B	59	-10.670	45.141	72.564	1.00	30.16	C
ATOM	3777	OE1	GLN	B	59	-9.742	45.839	72.978	1.00	29.60	O
ATOM	3778	NE2	GLN	B	59	-10.503	44.209	71.632	1.00	29.45	N
ATOM	3779	N	LEU	B	60	-13.351	47.329	77.030	1.00	28.13	N
ATOM	3780	CA	LEU	B	60	-13.259	47.711	78.436	1.00	29.44	C
ATOM	3781	C	LEU	B	60	-14.499	47.291	79.230	1.00	32.37	C
ATOM	3782	O	LEU	B	60	-14.446	47.152	80.454	1.00	32.14	O
ATOM	3783	CB	LEU	B	60	-13.047	49.224	78.566	1.00	26.55	C
ATOM	3784	CG	LEU	B	60	-11.652	49.760	78.217	1.00	25.81	C
ATOM	3785	CD1	LEU	B	60	-11.643	51.265	78.319	1.00	24.44	C
ATOM	3786	CD2	LEU	B	60	-10.621	49.178	79.165	1.00	25.75	C
ATOM	3787	N	HIS	B	61	-15.610	47.079	78.528	1.00	33.71	N
ATOM	3788	CA	HIS	B	61	-16.857	46.684	79.172	1.00	36.02	C
ATOM	3789	C	HIS	B	61	-17.171	45.197	79.026	1.00	36.42	C
ATOM	3790	O	HIS	B	61	-17.720	44.581	79.944	1.00	36.15	O
ATOM	3791	CB	HIS	B	61	-18.020	47.497	78.600	1.00	37.49	C
ATOM	3792	CG	HIS	B	61	-18.002	48.940	78.993	1.00	39.74	C
ATOM	3793	ND1	HIS	B	61	-18.313	49.369	80.266	1.00	42.16	N
ATOM	3794	CD2	HIS	B	61	-17.714	50.054	78.281	1.00	41.68	C
ATOM	3795	CE1	HIS	B	61	-18.220	50.686	80.320	1.00	41.96	C
ATOM	3796	NE2	HIS	B	61	-17.858	51.127	79.129	1.00	42.75	N
ATOM	3797	N	ASP	B	62	-16.819	44.623	77.879	1.00	35.86	N
ATOM	3798	CA	ASP	B	62	-17.097	43.217	77.620	1.00	36.19	C
ATOM	3799	C	ASP	B	62	-16.079	42.234	78.188	1.00	37.00	C



ATOM	3800	O	ASP	B	62	-16.427	41.096	78.499	1.00	37.89	O
ATOM	3801	CB	ASP	B	62	-17.232	42.973	76.115	1.00	37.35	C
ATOM	3802	CG	ASP	B	62	-18.287	43.851	75.473	1.00	39.65	C
ATOM	3803	OD1	ASP	B	62	-19.320	44.119	76.121	1.00	40.55	O
ATOM	3804	OD2	ASP	B	62	-18.092	44.262	74.310	1.00	41.68	O
ATOM	3805	N	LEU	B	63	-14.826	42.658	78.318	1.00	35.66	N
ATOM	3806	CA	LEU	B	63	-13.785	41.776	78.833	1.00	34.97	C
ATOM	3807	C	LEU	B	63	-13.566	41.940	80.334	1.00	34.51	C
ATOM	3808	O	LEU	B	63	-13.848	42.995	80.902	1.00	33.61	O
ATOM	3809	CB	LEU	B	63	-12.467	42.026	78.091	1.00	34.80	C
ATOM	3810	CG	LEU	B	63	-12.481	41.887	76.565	1.00	33.43	C
ATOM	3811	CD1	LEU	B	63	-11.080	42.083	76.021	1.00	33.15	C
ATOM	3812	CD2	LEU	B	63	-12.996	40.515	76.176	1.00	35.10	C
ATOM	3813	N	GLU	B	64	-13.064	40.885	80.969	1.00	34.06	N
ATOM	3814	CA	GLU	B	64	-12.794	40.913	82.403	1.00	33.13	C
ATOM	3815	C	GLU	B	64	-11.846	42.088	82.631	1.00	31.28	C
ATOM	3816	O	GLU	B	64	-11.921	42.778	83.647	1.00	29.29	O
ATOM	3817	CB	GLU	B	64	-12.147	39.597	82.840	1.00	34.98	C
ATOM	3818	CG	GLU	B	64	-12.443	39.204	84.279	1.00	40.68	C
ATOM	3819	CD	GLU	B	64	-11.952	37.804	84.608	1.00	43.50	C
ATOM	3820	OE1	GLU	B	64	-12.201	36.882	83.798	1.00	44.88	O
ATOM	3821	OE2	GLU	B	64	-11.327	37.623	85.676	1.00	46.19	O
ATOM	3822	N	TRP	B	65	-10.953	42.295	81.664	1.00	28.71	N
ATOM	3823	CA	TRP	B	65	-10.011	43.406	81.683	1.00	27.29	C
ATOM	3824	C	TRP	B	65	-9.182	43.407	80.406	1.00	26.93	C
ATOM	3825	O	TRP	B	65	-9.084	42.389	79.715	1.00	27.12	O
ATOM	3826	CB	TRP	B	65	-9.120	43.365	82.939	1.00	25.41	C
ATOM	3827	CG	TRP	B	65	-7.914	42.484	82.891	1.00	25.62	C
ATOM	3828	CD1	TRP	B	65	-6.663	42.828	82.460	1.00	24.34	C
ATOM	3829	CD2	TRP	B	65	-7.821	41.130	83.353	1.00	25.54	C
ATOM	3830	NE1	TRP	B	65	-5.797	41.775	82.634	1.00	26.46	N
ATOM	3831	CE2	TRP	B	65	-6.480	40.720	83.180	1.00	25.10	C
ATOM	3832	CE3	TRP	B	65	-8.742	40.223	83.898	1.00	26.53	C
ATOM	3833	CZ2	TRP	B	65	-6.035	39.443	83.534	1.00	24.45	C
ATOM	3834	CZ3	TRP	B	65	-8.298	38.948	84.253	1.00	26.71	C
ATOM	3835	CH2	TRP	B	65	-6.954	38.574	84.067	1.00	26.45	C
ATOM	3836	N	VAL	B	66	-8.622	44.566	80.075	1.00	24.51	N
ATOM	3837	CA	VAL	B	66	-7.808	44.714	78.874	1.00	23.28	C
ATOM	3838	C	VAL	B	66	-6.355	44.924	79.265	1.00	22.56	C
ATOM	3839	O	VAL	B	66	-6.027	45.871	79.982	1.00	22.26	O
ATOM	3840	CB	VAL	B	66	-8.278	45.930	78.025	1.00	23.84	C
ATOM	3841	CG1	VAL	B	66	-7.337	46.143	76.843	1.00	22.35	C
ATOM	3842	CG2	VAL	B	66	-9.700	45.701	77.528	1.00	22.48	C
ATOM	3843	N	ASN	B	67	-5.476	44.041	78.810	1.00	22.23	N
ATOM	3844	CA	ASN	B	67	-4.068	44.198	79.139	1.00	22.97	C
ATOM	3845	C	ASN	B	67	-3.234	44.407	77.887	1.00	22.36	C
ATOM	3846	O	ASN	B	67	-3.644	44.042	76.788	1.00	23.81	O
ATOM	3847	CB	ASN	B	67	-3.555	43.000	79.956	1.00	22.73	C
ATOM	3848	CG	ASN	B	67	-3.684	41.680	79.224	1.00	24.90	C
ATOM	3849	OD1	ASN	B	67	-4.227	41.605	78.120	1.00	24.63	O
ATOM	3850	ND2	ASN	B	67	-3.180	40.621	79.848	1.00	24.29	N
ATOM	3851	N	ALA	B	68	-2.064	45.010	78.052	1.00	22.54	N
ATOM	3852	CA	ALA	B	68	-1.200	45.286	76.918	1.00	20.17	C
ATOM	3853	C	ALA	B	68	0.256	45.386	77.332	1.00	20.12	C
ATOM	3854	O	ALA	B	68	0.573	45.472	78.523	1.00	19.06	O
ATOM	3855	CB	ALA	B	68	-1.632	46.585	76.250	1.00	18.80	C
ATOM	3856	N	LEU	B	69	1.128	45.376	76.326	1.00	18.09	N
ATOM	3857	CA	LEU	B	69	2.570	45.483	76.503	1.00	17.03	C
ATOM	3858	C	LEU	B	69	3.036	46.691	75.692	1.00	17.85	C
ATOM	3859	O	LEU	B	69	2.500	46.966	74.613	1.00	16.80	O
ATOM	3860	CB	LEU	B	69	3.258	44.213	75.984	1.00	17.78	C
ATOM	3861	CG	LEU	B	69	2.827	42.875	76.607	1.00	19.31	C
ATOM	3862	CD1	LEU	B	69	3.502	41.697	75.885	1.00	16.77	C
ATOM	3863	CD2	LEU	B	69	3.178	42.879	78.087	1.00	17.08	C
ATOM	3864	N	GLY	B	70	4.014	47.423	76.216	1.00	18.43	N
ATOM	3865	CA	GLY	B	70	4.520	48.579	75.500	1.00	18.45	C
ATOM	3866	C	GLY	B	70	5.214	48.170	74.208	1.00	19.25	C
ATOM	3867	O	GLY	B	70	6.000	47.220	74.196	1.00	19.78	O
ATOM	3868	N	ALA	B	71	4.914	48.878	73.121	1.00	16.99	N
ATOM	3869	CA	ALA	B	71	5.511	48.604	71.814	1.00	16.19	C
ATOM	3870	C	ALA	B	71	6.194	49.864	71.275	1.00	16.30	C
ATOM	3871	O	ALA	B	71	5.601	50.947	71.272	1.00	13.58	O
ATOM	3872	CB	ALA	B	71	4.433	48.140	70.827	1.00	13.62	C
ATOM	3873	N	LEU	B	72	7.438	49.725	70.823	1.00	15.25	N
ATOM	3874	CA	LEU	B	72	8.162	50.865	70.279	1.00	16.36	C
ATOM	3875	C	LEU	B	72	8.432	50.736	68.776	1.00	16.23	C
ATOM	3876	O	LEU	B	72	9.013	51.634	68.181	1.00	16.44	O
ATOM	3877	CB	LEU	B	72	9.481	51.079	71.031	1.00	17.46	C
ATOM	3878	CG	LEU	B	72	10.474	49.916	70.995	1.00	18.13	C
ATOM	3879	CD1	LEU	B	72	11.827	50.390	70.474	1.00	19.09	C

7-57/7



ATOM	3880	CD2	LEU	B	72	10.599	49.332	72.385	1.00	17.85	C
ATOM	3881	N	THR	B	73	8.048	49.611	68.173	1.00	15.71	N
ATOM	3882	CA	THR	B	73	8.205	49.427	66.729	1.00	15.00	C
ATOM	3883	C	THR	B	73	6.947	48.749	66.175	1.00	15.84	C
ATOM	3884	O	THR	B	73	6.174	48.139	66.919	1.00	13.25	O
ATOM	3885	CB	THR	B	73	9.420	48.544	66.338	1.00	13.91	C
ATOM	3886	OG1	THR	B	73	9.097	47.168	66.540	1.00	17.86	O
ATOM	3887	CG2	THR	B	73	10.639	48.896	67.158	1.00	16.60	C
ATOM	3888	N	GLY	B	74	6.748	48.859	64.866	1.00	16.36	N
ATOM	3889	CA	GLY	B	74	5.590	48.251	64.247	1.00	15.24	C
ATOM	3890	C	GLY	B	74	5.529	46.748	64.447	1.00	14.57	C
ATOM	3891	O	GLY	B	74	4.489	46.219	64.852	1.00	15.34	O
ATOM	3892	N	ASN	B	75	6.632	46.056	64.168	1.00	13.36	N
ATOM	3893	CA	ASN	B	75	6.664	44.601	64.324	1.00	15.24	C
ATOM	3894	C	ASN	B	75	6.313	44.152	65.746	1.00	15.70	C
ATOM	3895	O	ASN	B	75	5.717	43.090	65.931	1.00	15.49	O
ATOM	3896	CB	ASN	B	75	8.037	44.036	63.948	1.00	14.42	C
ATOM	3897	CG	ASN	B	75	8.365	44.201	62.479	1.00	18.37	C
ATOM	3898	OD1	ASN	B	75	7.564	44.738	61.692	1.00	18.10	O
ATOM	3899	ND2	ASN	B	75	9.554	43.742	62.094	1.00	14.29	N
ATOM	3900	N	MET	B	76	6.697	44.940	66.749	1.00	15.50	N
ATOM	3901	CA	MET	B	76	6.391	44.580	68.134	1.00	16.67	C
ATOM	3902	C	MET	B	76	4.887	44.475	68.319	1.00	16.66	C
ATOM	3903	O	MET	B	76	4.389	43.514	68.890	1.00	16.15	O
ATOM	3904	CB	MET	B	76	6.937	45.619	69.123	1.00	15.33	C
ATOM	3905	CG	MET	B	76	8.420	45.516	69.403	1.00	15.25	C
ATOM	3906	SD	MET	B	76	8.904	46.432	70.881	1.00	14.57	S
ATOM	3907	CE	MET	B	76	10.675	46.146	70.848	1.00	9.99	C
ATOM	3908	N	ALA	B	77	4.168	45.475	67.823	1.00	15.78	N
ATOM	3909	CA	ALA	B	77	2.720	45.483	67.941	1.00	18.11	C
ATOM	3910	C	ALA	B	77	2.113	44.297	67.197	1.00	16.32	C
ATOM	3911	O	ALA	B	77	1.147	43.703	67.660	1.00	17.29	O
ATOM	3912	CB	ALA	B	77	2.156	46.797	67.399	1.00	15.82	C
ATOM	3913	N	VAL	B	78	2.683	43.956	66.045	1.00	16.84	N
ATOM	3914	CA	VAL	B	78	2.175	42.840	65.253	1.00	17.19	C
ATOM	3915	C	VAL	B	78	2.298	41.527	66.018	1.00	17.92	C
ATOM	3916	O	VAL	B	78	1.366	40.727	66.029	1.00	16.91	O
ATOM	3917	CB	VAL	B	78	2.919	42.717	63.909	1.00	15.66	C
ATOM	3918	CG1	VAL	B	78	2.527	41.430	63.203	1.00	13.24	C
ATOM	3919	CG2	VAL	B	78	2.581	43.907	63.023	1.00	16.91	C
ATOM	3920	N	GLN	B	79	3.442	41.316	66.661	1.00	16.26	N
ATOM	3921	CA	GLN	B	79	3.658	40.101	67.428	1.00	17.31	C
ATOM	3922	C	GLN	B	79	2.716	40.051	68.618	1.00	19.50	C
ATOM	3923	O	GLN	B	79	2.238	38.983	68.996	1.00	20.14	O
ATOM	3924	CB	GLN	B	79	5.111	40.012	67.911	1.00	16.95	C
ATOM	3925	CG	GLN	B	79	6.119	39.773	66.791	1.00	15.63	C
ATOM	3926	CD	GLN	B	79	5.667	38.676	65.833	1.00	19.56	C
ATOM	3927	OE1	GLN	B	79	5.033	37.695	66.240	1.00	17.31	O
ATOM	3928	NE2	GLN	B	79	6.000	38.833	64.557	1.00	18.31	N
ATOM	3929	N	GLN	B	80	2.454	41.212	69.211	1.00	19.17	N
ATOM	3930	CA	GLN	B	80	1.560	41.293	70.347	1.00	19.28	C
ATOM	3931	C	GLN	B	80	0.149	40.843	69.948	1.00	21.24	C
ATOM	3932	O	GLN	B	80	-0.476	40.045	70.647	1.00	22.35	O
ATOM	3933	CB	GLN	B	80	1.560	42.725	70.900	1.00	19.08	C
ATOM	3934	CG	GLN	B	80	2.856	43.077	71.629	1.00	15.58	C
ATOM	3935	CD	GLN	B	80	2.983	44.556	71.952	1.00	16.28	C
ATOM	3936	OE1	GLN	B	80	2.051	45.337	71.750	1.00	13.22	O
ATOM	3937	NE2	GLN	B	80	4.149	44.948	72.460	1.00	14.95	N
ATOM	3938	N	VAL	B	81	-0.347	41.335	68.817	1.00	20.72	N
ATOM	3939	CA	VAL	B	81	-1.677	40.952	68.352	1.00	20.47	C
ATOM	3940	C	VAL	B	81	-1.694	39.495	67.883	1.00	21.39	C
ATOM	3941	O	VAL	B	81	-2.650	38.755	68.150	1.00	21.91	O
ATOM	3942	CB	VAL	B	81	-2.156	41.881	67.208	1.00	19.54	C
ATOM	3943	CG1	VAL	B	81	-3.475	41.389	66.640	1.00	20.01	C
ATOM	3944	CG2	VAL	B	81	-2.319	43.291	67.740	1.00	15.95	C
ATOM	3945	N	ARG	B	82	-0.632	39.082	67.199	1.00	19.99	N
ATOM	3946	CA	ARG	B	82	-0.520	37.714	66.712	1.00	22.68	C
ATOM	3947	C	ARG	B	82	-0.547	36.729	67.892	1.00	23.96	C
ATOM	3948	O	ARG	B	82	-1.003	35.595	67.752	1.00	24.16	O
ATOM	3949	CB	ARG	B	82	0.783	37.540	65.918	1.00	22.05	C
ATOM	3950	CG	ARG	B	82	1.141	36.089	65.600	1.00	24.69	C
ATOM	3951	CD	ARG	B	82	0.244	35.489	64.523	1.00	25.69	C
ATOM	3952	NE	ARG	B	82	0.570	35.998	63.192	1.00	29.30	N
ATOM	3953	CZ	ARG	B	82	-0.088	35.671	62.081	1.00	32.22	C
ATOM	3954	NH1	ARG	B	82	-1.116	34.831	62.139	1.00	30.85	N
ATOM	3955	NH2	ARG	B	82	0.281	36.185	60.910	1.00	30.16	N
ATOM	3956	N	ALA	B	83	-0.058	37.174	69.049	1.00	24.26	N
ATOM	3957	CA	ALA	B	83	-0.026	36.344	70.250	1.00	22.70	C
ATOM	3958	C	ALA	B	83	-1.357	36.376	70.992	1.00	22.73	C
ATOM	3959	O	ALA	B	83	-1.523	35.701	72.005	1.00	23.47	O



ATOM	3960	CB	ALA	B	83	1.094	36.795	71.173	1.00	21.01	C
ATOM	3961	N	GLY	B	84	-2.299	37.174	70.496	1.00	23.53	N
ATOM	3962	CA	GLY	B	84	-3.609	37.239	71.123	1.00	22.32	C
ATOM	3963	C	GLY	B	84	-3.966	38.472	71.932	1.00	22.68	C
ATOM	3964	O	GLY	B	84	-5.082	38.562	72.435	1.00	23.18	O
ATOM	3965	N	LEU	B	85	-3.053	39.424	72.081	1.00	22.94	N
ATOM	3966	CA	LEU	B	85	-3.385	40.614	72.858	1.00	22.27	C
ATOM	3967	C	LEU	B	85	-4.400	41.450	72.084	1.00	23.18	C
ATOM	3968	O	LEU	B	85	-4.417	41.436	70.849	1.00	23.16	O
ATOM	3969	CB	LEU	B	85	-2.114	41.410	73.183	1.00	20.83	C
ATOM	3970	CG	LEU	B	85	-1.095	40.610	74.020	1.00	20.86	C
ATOM	3971	CD1	LEU	B	85	0.091	41.475	74.379	1.00	15.26	C
ATOM	3972	CD2	LEU	B	85	-1.763	40.076	75.289	1.00	19.36	C
ATOM	3973	N	LYS	B	86	-5.261	42.164	72.803	1.00	23.67	N
ATOM	3974	CA	LYS	B	86	-6.290	42.958	72.144	1.00	24.39	C
ATOM	3975	C	LYS	B	86	-6.151	44.473	72.268	1.00	23.34	C
ATOM	3976	O	LYS	B	86	-7.067	45.221	71.935	1.00	22.67	O
ATOM	3977	CB	LYS	B	86	-7.668	42.506	72.626	1.00	26.28	C
ATOM	3978	CG	LYS	B	86	-8.022	41.112	72.147	1.00	29.37	C
ATOM	3979	CD	LYS	B	86	-9.450	40.749	72.490	1.00	33.77	C
ATOM	3980	CE	LYS	B	86	-9.760	39.318	72.071	1.00	36.03	C
ATOM	3981	NZ	LYS	B	86	-11.133	38.902	72.477	1.00	36.58	N
ATOM	3982	N	ALA	B	87	-4.995	44.916	72.737	1.00	21.21	N
ATOM	3983	CA	ALA	B	87	-4.713	46.335	72.868	1.00	20.59	C
ATOM	3984	C	ALA	B	87	-3.209	46.532	72.788	1.00	19.56	C
ATOM	3985	O	ALA	B	87	-2.436	45.606	73.048	1.00	17.26	O
ATOM	3986	CB	ALA	B	87	-5.244	46.871	74.194	1.00	18.76	C
ATOM	3987	N	ILE	B	88	-2.800	47.740	72.415	1.00	19.40	N
ATOM	3988	CA	ILE	B	88	-1.389	48.062	72.317	1.00	18.53	C
ATOM	3989	C	ILE	B	88	-1.083	49.286	73.168	1.00	20.38	C
ATOM	3990	O	ILE	B	88	-1.783	50.297	73.093	1.00	20.41	O
ATOM	3991	CB	ILE	B	88	-0.988	48.360	70.870	1.00	20.53	C
ATOM	3992	CG1	ILE	B	88	-1.264	47.135	69.999	1.00	22.74	C
ATOM	3993	CG2	ILE	B	88	0.488	48.730	70.803	1.00	16.71	C
ATOM	3994	CD1	ILE	B	88	-0.991	47.369	68.549	1.00	27.02	C
ATOM	3995	N	TYR	B	89	-0.044	49.195	73.987	1.00	19.34	N
ATOM	3996	CA	TYR	B	89	0.335	50.326	74.815	1.00	19.33	C
ATOM	3997	C	TYR	B	89	1.544	51.001	74.191	1.00	18.86	C
ATOM	3998	O	TYR	B	89	2.547	50.349	73.900	1.00	19.73	O
ATOM	3999	CB	TYR	B	89	0.684	49.886	76.238	1.00	18.81	C
ATOM	4000	CG	TYR	B	89	1.128	51.053	77.075	1.00	17.90	C
ATOM	4001	CD1	TYR	B	89	0.250	52.100	77.346	1.00	17.98	C
ATOM	4002	CD2	TYR	B	89	2.445	51.158	77.526	1.00	17.34	C
ATOM	4003	CE1	TYR	B	89	0.667	53.225	78.032	1.00	17.30	C
ATOM	4004	CE2	TYR	B	89	2.875	52.281	78.216	1.00	16.31	C
ATOM	4005	CZ	TYR	B	89	1.979	53.311	78.461	1.00	17.28	C
ATOM	4006	OH	TYR	B	89	2.387	54.452	79.100	1.00	17.17	O
ATOM	4007	N	LEU	B	90	1.449	52.306	73.987	1.00	17.05	N
ATOM	4008	CA	LEU	B	90	2.545	53.049	73.390	1.00	19.55	C
ATOM	4009	C	LEU	B	90	3.214	53.895	74.466	1.00	19.96	C
ATOM	4010	O	LEU	B	90	2.736	54.968	74.829	1.00	21.40	O
ATOM	4011	CB	LEU	B	90	2.015	53.909	72.240	1.00	19.27	C
ATOM	4012	CG	LEU	B	90	2.920	54.871	71.464	1.00	20.67	C
ATOM	4013	CD1	LEU	B	90	4.389	54.543	71.618	1.00	18.33	C
ATOM	4014	CD2	LEU	B	90	2.492	54.825	70.009	1.00	17.93	C
ATOM	4015	N	SER	B	91	4.328	53.383	74.973	1.00	18.22	N
ATOM	4016	CA	SER	B	91	5.083	54.033	76.035	1.00	17.81	C
ATOM	4017	C	SER	B	91	5.881	55.257	75.618	1.00	16.24	C
ATOM	4018	O	SER	B	91	6.545	55.254	74.585	1.00	16.23	O
ATOM	4019	CB	SER	B	91	6.036	53.017	76.666	1.00	17.64	C
ATOM	4020	OG	SER	B	91	6.947	53.660	77.526	1.00	17.50	O
ATOM	4021	N	GLY	B	92	5.817	56.300	76.437	1.00	15.93	N
ATOM	4022	CA	GLY	B	92	6.569	57.505	76.155	1.00	17.22	C
ATOM	4023	C	GLY	B	92	8.006	57.250	76.569	1.00	17.91	C
ATOM	4024	O	GLY	B	92	8.946	57.715	75.919	1.00	18.40	O
ATOM	4025	N	TRP	B	93	8.163	56.488	77.651	1.00	17.46	N
ATOM	4026	CA	TRP	B	93	9.471	56.123	78.182	1.00	17.48	C
ATOM	4027	C	TRP	B	93	10.283	55.428	77.086	1.00	18.90	C
ATOM	4028	O	TRP	B	93	11.448	55.768	76.856	1.00	18.02	O
ATOM	4029	CB	TRP	B	93	9.303	55.173	79.385	1.00	18.32	C
ATOM	4030	CG	TRP	B	93	10.566	54.919	80.187	1.00	18.32	C
ATOM	4031	CD1	TRP	B	93	10.865	55.421	81.426	1.00	19.09	C
ATOM	4032	CD2	TRP	B	93	11.704	54.133	79.791	1.00	17.73	C
ATOM	4033	NE1	TRP	B	93	12.114	55.000	81.823	1.00	20.68	N
ATOM	4034	CE2	TRP	B	93	12.651	54.209	80.841	1.00	18.45	C
ATOM	4035	CE3	TRP	B	93	12.015	53.374	78.655	1.00	17.01	C
ATOM	4036	CZ2	TRP	B	93	13.888	53.553	80.787	1.00	17.21	C
ATOM	4037	CZ3	TRP	B	93	13.247	52.718	78.601	1.00	16.77	C
ATOM	4038	CH2	TRP	B	93	14.167	52.815	79.666	1.00	17.59	C
ATOM	4039	N	GLN	B	94	9.664	54.454	76.413	1.00	18.25	N



ATOM	4040	CA	GLN	B	94	10.334	53.704	75.348	1.00	18.00	C
ATOM	4041	C	GLN	B	94	10.672	54.578	74.139	1.00	16.49	C
ATOM	4042	O	GLN	B	94	11.695	54.389	73.485	1.00	15.08	O
ATOM	4043	CB	GLN	B	94	9.471	52.513	74.907	1.00	18.89	C
ATOM	4044	CG	GLN	B	94	9.227	51.469	76.004	1.00	17.64	C
ATOM	4045	CD	GLN	B	94	8.513	50.219	75.495	1.00	19.10	C
ATOM	4046	OE1	GLN	B	94	7.607	50.299	74.650	1.00	19.52	O
ATOM	4047	NE2	GLN	B	94	8.902	49.061	76.022	1.00	12.76	N
ATOM	4048	N	VAL	B	95	9.799	55.530	73.838	1.00	18.26	N
ATOM	4049	CA	VAL	B	95	10.027	56.440	72.720	1.00	16.73	C
ATOM	4050	C	VAL	B	95	11.248	57.302	73.036	1.00	16.06	C
ATOM	4051	O	VAL	B	95	12.095	57.535	72.182	1.00	19.84	O
ATOM	4052	CB	VAL	B	95	8.787	57.338	72.483	1.00	16.66	C
ATOM	4053	CG1	VAL	B	95	9.115	58.462	71.492	1.00	14.98	C
ATOM	4054	CG2	VAL	B	95	7.638	56.487	71.953	1.00	13.21	C
ATOM	4055	N	ALA	B	96	11.333	57.764	74.276	1.00	14.86	N
ATOM	4056	CA	ALA	B	96	12.455	58.580	74.716	1.00	15.71	C
ATOM	4057	C	ALA	B	96	13.761	57.794	74.605	1.00	15.26	C
ATOM	4058	O	ALA	B	96	14.774	58.298	74.116	1.00	16.12	O
ATOM	4059	CB	ALA	B	96	12.236	59.024	76.171	1.00	13.87	C
ATOM	4060	N	GLY	B	97	13.728	56.546	75.049	1.00	14.92	N
ATOM	4061	CA	GLY	B	97	14.925	55.733	75.009	1.00	15.35	C
ATOM	4062	C	GLY	B	97	15.343	55.100	73.690	1.00	16.19	C
ATOM	4063	O	GLY	B	97	16.534	54.855	73.494	1.00	17.18	O
ATOM	4064	N	ASP	B	98	14.416	54.850	72.772	1.00	13.97	N
ATOM	4065	CA	ASP	B	98	14.825	54.183	71.537	1.00	16.09	C
ATOM	4066	C	ASP	B	98	13.955	54.428	70.293	1.00	17.36	C
ATOM	4067	O	ASP	B	98	14.122	53.734	69.290	1.00	18.03	O
ATOM	4068	CB	ASP	B	98	14.918	52.673	71.830	1.00	16.27	C
ATOM	4069	CG	ASP	B	98	15.814	51.922	70.859	1.00	17.11	C
ATOM	4070	OD1	ASP	B	98	16.856	52.473	70.442	1.00	17.31	O
ATOM	4071	OD2	ASP	B	98	15.488	50.758	70.537	1.00	16.45	O
ATOM	4072	N	ALA	B	99	13.044	55.406	70.332	1.00	18.03	N
ATOM	4073	CA	ALA	B	99	12.193	55.652	69.160	1.00	17.83	C
ATOM	4074	C	ALA	B	99	11.598	57.060	69.004	1.00	18.31	C
ATOM	4075	O	ALA	B	99	10.404	57.195	68.710	1.00	17.34	O
ATOM	4076	CB	ALA	B	99	11.057	54.610	69.126	1.00	14.67	C
ATOM	4077	N	ASN	B	100	12.410	58.105	69.177	1.00	17.21	N
ATOM	4078	CA	ASN	B	100	11.898	59.464	69.037	1.00	17.81	C
ATOM	4079	C	ASN	B	100	12.586	60.220	67.893	1.00	17.34	C
ATOM	4080	O	ASN	B	100	13.720	59.916	67.522	1.00	16.01	O
ATOM	4081	CB	ASN	B	100	12.044	60.236	70.356	1.00	18.02	C
ATOM	4082	CG	ASN	B	100	13.484	60.527	70.697	1.00	18.44	C
ATOM	4083	OD1	ASN	B	100	14.110	59.822	71.499	1.00	17.40	O
ATOM	4084	ND2	ASN	B	100	14.031	61.561	70.073	1.00	16.20	N
ATOM	4085	N	LEU	B	101	11.885	61.212	67.353	1.00	16.12	N
ATOM	4086	CA	LEU	B	101	12.353	62.008	66.217	1.00	14.52	C
ATOM	4087	C	LEU	B	101	13.652	62.802	66.347	1.00	13.77	C
ATOM	4088	O	LEU	B	101	14.088	63.420	65.380	1.00	14.43	O
ATOM	4089	CB	LEU	B	101	11.238	62.956	65.778	1.00	15.53	C
ATOM	4090	CG	LEU	B	101	9.926	62.263	65.397	1.00	18.80	C
ATOM	4091	CD1	LEU	B	101	8.851	63.306	65.104	1.00	20.08	C
ATOM	4092	CD2	LEU	B	101	10.153	61.364	64.182	1.00	19.77	C
ATOM	4093	N	SER	B	102	14.273	62.812	67.517	1.00	13.63	N
ATOM	4094	CA	SER	B	102	15.519	63.559	67.655	1.00	15.02	C
ATOM	4095	C	SER	B	102	16.673	62.640	67.296	1.00	14.18	C
ATOM	4096	O	SER	B	102	17.769	63.096	67.012	1.00	15.64	O
ATOM	4097	CB	SER	B	102	15.719	64.062	69.088	1.00	13.78	C
ATOM	4098	OG	SER	B	102	16.234	63.023	69.900	1.00	17.53	O
ATOM	4099	N	GLY	B	103	16.411	61.339	67.316	1.00	15.85	N
ATOM	4100	CA	GLY	B	103	17.442	60.370	67.012	1.00	15.07	C
ATOM	4101	C	GLY	B	103	18.286	60.034	68.231	1.00	16.04	C
ATOM	4102	O	GLY	B	103	19.135	59.157	68.169	1.00	18.08	O
ATOM	4103	N	HIS	B	104	18.049	60.719	69.348	1.00	17.24	N
ATOM	4104	CA	HIS	B	104	18.821	60.483	70.564	1.00	15.86	C
ATOM	4105	C	HIS	B	104	18.172	59.579	71.601	1.00	15.11	C
ATOM	4106	O	HIS	B	104	16.954	59.416	71.629	1.00	15.25	O
ATOM	4107	CB	HIS	B	104	19.163	61.817	71.232	1.00	17.10	C
ATOM	4108	CG	HIS	B	104	20.248	62.579	70.539	1.00	19.42	C
ATOM	4109	ND1	HIS	B	104	20.044	63.823	69.979	1.00	20.17	N
ATOM	4110	CD2	HIS	B	104	21.544	62.265	70.302	1.00	18.73	C
ATOM	4111	CE1	HIS	B	104	21.169	64.240	69.423	1.00	20.65	C
ATOM	4112	NE2	HIS	B	104	22.094	63.313	69.605	1.00	21.98	N
ATOM	4113	N	THR	B	105	19.006	58.993	72.455	1.00	14.90	N
ATOM	4114	CA	THR	B	105	18.529	58.139	73.543	1.00	16.72	C
ATOM	4115	C	THR	B	105	18.339	59.074	74.738	1.00	17.21	C
ATOM	4116	O	THR	B	105	19.288	59.735	75.165	1.00	18.45	O
ATOM	4117	CB	THR	B	105	19.568	57.058	73.920	1.00	16.14	C
ATOM	4118	OG1	THR	B	105	19.780	56.181	72.810	1.00	15.74	O
ATOM	4119	CG2	THR	B	105	19.082	56.238	75.096	1.00	17.77	C



ATOM	4120	N	TYR	B	106	17.125	59.139	75.274	1.00	15.64	N
ATOM	4121	CA	TYR	B	106	16.847	60.029	76.403	1.00	14.87	C
ATOM	4122	C	TYR	B	106	16.170	59.350	77.575	1.00	15.92	C
ATOM	4123	O	TYR	B	106	15.487	58.341	77.409	1.00	17.15	O
ATOM	4124	CB	TYR	B	106	15.887	61.149	75.997	1.00	14.14	C
ATOM	4125	CG	TYR	B	106	16.386	62.171	75.008	1.00	15.34	C
ATOM	4126	CD1	TYR	B	106	17.576	62.873	75.224	1.00	15.03	C
ATOM	4127	CD2	TYR	B	106	15.607	62.519	73.904	1.00	15.54	C
ATOM	4128	CE1	TYR	B	106	17.967	63.905	74.362	1.00	16.61	C
ATOM	4129	CE2	TYR	B	106	15.984	63.542	73.046	1.00	14.70	C
ATOM	4130	CZ	TYR	B	106	17.162	64.233	73.280	1.00	15.29	C
ATOM	4131	OH	TYR	B	106	17.516	65.255	72.427	1.00	15.34	O
ATOM	4132	N	PRO	B	107	16.368	59.891	78.788	1.00	16.81	N
ATOM	4133	CA	PRO	B	107	15.714	59.311	79.961	1.00	16.64	C
ATOM	4134	C	PRO	B	107	14.277	59.844	79.828	1.00	17.71	C
ATOM	4135	O	PRO	B	107	14.023	60.739	79.012	1.00	16.17	O
ATOM	4136	CB	PRO	B	107	16.487	59.927	81.133	1.00	15.90	C
ATOM	4137	CG	PRO	B	107	16.921	61.263	80.586	1.00	16.07	C
ATOM	4138	CD	PRO	B	107	17.388	60.874	79.198	1.00	17.50	C
ATOM	4139	N	ASP	B	108	13.348	59.318	80.617	1.00	19.40	N
ATOM	4140	CA	ASP	B	108	11.945	59.716	80.524	1.00	18.33	C
ATOM	4141	C	ASP	B	108	11.633	61.079	81.150	1.00	19.21	C
ATOM	4142	O	ASP	B	108	11.062	61.151	82.241	1.00	18.70	O
ATOM	4143	CB	ASP	B	108	11.097	58.617	81.163	1.00	20.37	C
ATOM	4144	CG	ASP	B	108	9.611	58.781	80.902	1.00	21.65	C
ATOM	4145	OD1	ASP	B	108	9.234	59.312	79.840	1.00	22.92	O
ATOM	4146	OD2	ASP	B	108	8.818	58.353	81.761	1.00	22.40	O
ATOM	4147	N	GLN	B	109	11.982	62.158	80.445	1.00	16.94	N
ATOM	4148	CA	GLN	B	109	11.755	63.499	80.967	1.00	17.87	C
ATOM	4149	C	GLN	B	109	11.248	64.522	79.941	1.00	19.18	C
ATOM	4150	O	GLN	B	109	11.628	65.692	79.982	1.00	18.95	O
ATOM	4151	CB	GLN	B	109	13.047	64.015	81.622	1.00	18.28	C
ATOM	4152	CG	GLN	B	109	13.541	63.156	82.792	1.00	21.24	C
ATOM	4153	CD	GLN	B	109	14.854	63.650	83.383	1.00	22.86	C
ATOM	4154	OE1	GLN	B	109	14.965	64.805	83.807	1.00	24.21	O
ATOM	4155	NE2	GLN	B	109	15.854	62.776	83.415	1.00	21.82	N
ATOM	4156	N	SER	B	110	10.378	64.087	79.035	1.00	19.06	N
ATOM	4157	CA	SER	B	110	9.832	64.981	78.019	1.00	18.79	C
ATOM	4158	C	SER	B	110	10.916	65.754	77.273	1.00	16.09	C
ATOM	4159	O	SER	B	110	10.777	66.949	77.025	1.00	16.96	O
ATOM	4160	CB	SER	B	110	8.859	65.977	78.660	1.00	19.83	C
ATOM	4161	OG	SER	B	110	7.721	65.319	79.177	1.00	20.89	O
ATOM	4162	N	LEU	B	111	11.989	65.072	76.904	1.00	15.87	N
ATOM	4163	CA	LEU	B	111	13.080	65.725	76.193	1.00	16.87	C
ATOM	4164	C	LEU	B	111	12.923	65.679	74.674	1.00	16.21	C
ATOM	4165	O	LEU	B	111	13.405	66.565	73.976	1.00	16.08	O
ATOM	4166	CB	LEU	B	111	14.411	65.080	76.587	1.00	16.55	C
ATOM	4167	CG	LEU	B	111	14.761	65.167	78.071	1.00	15.69	C
ATOM	4168	CD1	LEU	B	111	15.985	64.316	78.375	1.00	15.89	C
ATOM	4169	CD2	LEU	B	111	15.018	66.630	78.431	1.00	17.98	C
ATOM	4170	N	TYR	B	112	12.240	64.656	74.168	1.00	15.78	N
ATOM	4171	CA	TYR	B	112	12.066	64.492	72.722	1.00	15.87	C
ATOM	4172	C	TYR	B	112	11.006	65.394	72.074	1.00	15.33	C
ATOM	4173	O	TYR	B	112	10.157	65.971	72.759	1.00	15.23	O
ATOM	4174	CB	TYR	B	112	11.778	63.014	72.410	1.00	14.91	C
ATOM	4175	CG	TYR	B	112	10.515	62.460	73.044	1.00	16.74	C
ATOM	4176	CD1	TYR	B	112	9.262	62.813	72.557	1.00	13.55	C
ATOM	4177	CD2	TYR	B	112	10.580	61.577	74.134	1.00	17.44	C
ATOM	4178	CE1	TYR	B	112	8.095	62.309	73.128	1.00	16.31	C
ATOM	4179	CE2	TYR	B	112	9.416	61.064	74.719	1.00	18.43	C
ATOM	4180	CZ	TYR	B	112	8.174	61.440	74.203	1.00	18.75	C
ATOM	4181	OH	TYR	B	112	7.013	60.943	74.743	1.00	18.73	O
ATOM	4182	N	PRO	B	113	11.060	65.540	70.740	1.00	14.02	N
ATOM	4183	CA	PRO	B	113	10.110	66.369	69.988	1.00	14.39	C
ATOM	4184	C	PRO	B	113	8.667	65.898	70.208	1.00	15.16	C
ATOM	4185	O	PRO	B	113	8.366	64.705	70.075	1.00	14.81	O
ATOM	4186	CB	PRO	B	113	10.571	66.193	68.544	1.00	13.37	C
ATOM	4187	CG	PRO	B	113	12.053	66.002	68.698	1.00	13.40	C
ATOM	4188	CD	PRO	B	113	12.119	65.029	69.851	1.00	14.36	C
ATOM	4189	N	ALA	B	114	7.786	66.848	70.517	1.00	13.97	N
ATOM	4190	CA	ALA	B	114	6.383	66.568	70.823	1.00	15.35	C
ATOM	4191	C	ALA	B	114	5.581	65.710	69.843	1.00	15.85	C
ATOM	4192	O	ALA	B	114	4.545	65.169	70.228	1.00	16.65	O
ATOM	4193	CB	ALA	B	114	5.639	67.881	71.087	1.00	14.29	C
ATOM	4194	N	ASN	B	115	6.034	65.582	68.596	1.00	14.78	N
ATOM	4195	CA	ASN	B	115	5.298	64.766	67.631	1.00	14.60	C
ATOM	4196	C	ASN	B	115	5.833	63.336	67.495	1.00	13.09	C
ATOM	4197	O	ASN	B	115	5.403	62.588	66.624	1.00	13.39	O
ATOM	4198	CB	ASN	B	115	5.240	65.464	66.255	1.00	13.97	C
ATOM	4199	CG	ASN	B	115	6.616	65.717	65.648	1.00	16.67	C



ATOM	4200	OD1	ASN	B	115	7.605	65.895	66.362	1.00	11.92	O
ATOM	4201	ND2	ASN	B	115	6.675	65.758	64.315	1.00	14.47	N
ATOM	4202	N	SER	B	116	6.748	62.949	68.381	1.00	13.73	N
ATOM	4203	CA	SER	B	116	7.325	61.602	68.344	1.00	13.58	C
ATOM	4204	C	SER	B	116	6.309	60.482	68.568	1.00	13.70	C
ATOM	4205	O	SER	B	116	6.233	59.553	67.762	1.00	14.67	O
ATOM	4206	CB	SER	B	116	8.447	61.466	69.376	1.00	11.69	C
ATOM	4207	OG	SER	B	116	9.521	62.331	69.067	1.00	15.67	O
ATOM	4208	N	VAL	B	117	5.541	60.545	69.658	1.00	13.02	N
ATOM	4209	CA	VAL	B	117	4.556	59.494	69.914	1.00	13.60	C
ATOM	4210	C	VAL	B	117	3.554	59.433	68.749	1.00	14.49	C
ATOM	4211	O	VAL	B	117	3.242	58.355	68.247	1.00	16.02	O
ATOM	4212	CB	VAL	B	117	3.827	59.710	71.269	1.00	14.64	C
ATOM	4213	CG1	VAL	B	117	2.753	58.643	71.471	1.00	14.71	C
ATOM	4214	CG2	VAL	B	117	4.830	59.635	72.408	1.00	13.93	C
ATOM	4215	N	PRO	B	118	3.035	60.587	68.303	1.00	14.34	N
ATOM	4216	CA	PRO	B	118	2.091	60.534	67.180	1.00	16.35	C
ATOM	4217	C	PRO	B	118	2.632	59.689	66.014	1.00	16.79	C
ATOM	4218	O	PRO	B	118	1.912	58.871	65.459	1.00	17.60	O
ATOM	4219	CB	PRO	B	118	1.928	62.004	66.805	1.00	15.06	C
ATOM	4220	CG	PRO	B	118	1.939	62.659	68.154	1.00	17.79	C
ATOM	4221	CD	PRO	B	118	3.095	61.947	68.875	1.00	14.07	C
ATOM	4222	N	GLN	B	119	3.900	59.891	65.656	1.00	16.41	N
ATOM	4223	CA	GLN	B	119	4.527	59.141	64.573	1.00	17.37	C
ATOM	4224	C	GLN	B	119	4.574	57.635	64.865	1.00	16.69	C
ATOM	4225	O	GLN	B	119	4.361	56.821	63.976	1.00	15.52	O
ATOM	4226	CB	GLN	B	119	5.955	59.646	64.324	1.00	20.45	C
ATOM	4227	CG	GLN	B	119	6.051	60.939	63.535	1.00	27.31	C
ATOM	4228	CD	GLN	B	119	5.501	60.803	62.130	1.00	30.55	C
ATOM	4229	OE1	GLN	B	119	4.284	60.831	61.919	1.00	34.05	O
ATOM	4230	NE2	GLN	B	119	6.395	60.639	61.159	1.00	31.56	N
ATOM	4231	N	VAL	B	120	4.867	57.259	66.105	1.00	14.70	N
ATOM	4232	CA	VAL	B	120	4.909	55.843	66.430	1.00	13.71	C
ATOM	4233	C	VAL	B	120	3.500	55.263	66.383	1.00	13.98	C
ATOM	4234	O	VAL	B	120	3.323	54.098	66.039	1.00	15.42	O
ATOM	4235	CB	VAL	B	120	5.561	55.596	67.804	1.00	12.96	C
ATOM	4236	CG1	VAL	B	120	5.455	54.122	68.189	1.00	12.14	C
ATOM	4237	CG2	VAL	B	120	7.027	56.020	67.741	1.00	9.81	C
ATOM	4238	N	VAL	B	121	2.495	56.073	66.708	1.00	13.68	N
ATOM	4239	CA	VAL	B	121	1.114	55.590	66.642	1.00	13.02	C
ATOM	4240	C	VAL	B	121	0.796	55.302	65.185	1.00	12.84	C
ATOM	4241	O	VAL	B	121	0.224	54.267	64.861	1.00	15.53	O
ATOM	4242	CB	VAL	B	121	0.087	56.628	67.132	1.00	11.36	C
ATOM	4243	CG1	VAL	B	121	-1.335	56.128	66.833	1.00	10.28	C
ATOM	4244	CG2	VAL	B	121	0.248	56.868	68.610	1.00	9.00	C
ATOM	4245	N	ARG	B	122	1.165	56.231	64.310	1.00	11.47	N
ATOM	4246	CA	ARG	B	122	0.924	56.072	62.885	1.00	12.18	C
ATOM	4247	C	ARG	B	122	1.668	54.836	62.407	1.00	12.67	C
ATOM	4248	O	ARG	B	122	1.136	54.048	61.629	1.00	12.23	O
ATOM	4249	CB	ARG	B	122	1.427	57.302	62.121	1.00	12.33	C
ATOM	4250	CG	ARG	B	122	1.250	57.231	60.593	1.00	14.33	C
ATOM	4251	CD	ARG	B	122	-0.224	57.187	60.170	1.00	15.26	C
ATOM	4252	NE	ARG	B	122	-0.743	55.833	59.938	1.00	14.49	N
ATOM	4253	CZ	ARG	B	122	-1.996	55.567	59.560	1.00	14.69	C
ATOM	4254	NH1	ARG	B	122	-2.856	56.557	59.381	1.00	11.56	N
ATOM	4255	NH2	ARG	B	122	-2.391	54.318	59.336	1.00	11.24	N
ATOM	4256	N	ARG	B	123	2.902	54.677	62.888	1.00	11.54	N
ATOM	4257	CA	ARG	B	123	3.737	53.550	62.516	1.00	12.85	C
ATOM	4258	C	ARG	B	123	3.125	52.212	62.928	1.00	12.48	C
ATOM	4259	O	ARG	B	123	3.096	51.270	62.143	1.00	15.12	O
ATOM	4260	CB	ARG	B	123	5.141	53.717	63.133	1.00	14.64	C
ATOM	4261	CG	ARG	B	123	6.020	52.468	63.063	1.00	12.21	C
ATOM	4262	CD	ARG	B	123	6.095	51.900	61.650	1.00	12.31	C
ATOM	4263	NE	ARG	B	123	6.693	50.572	61.647	1.00	13.62	N
ATOM	4264	CZ	ARG	B	123	6.424	49.631	60.747	1.00	16.74	C
ATOM	4265	NH1	ARG	B	123	5.562	49.875	59.766	1.00	14.24	N
ATOM	4266	NH2	ARG	B	123	7.002	48.436	60.841	1.00	15.76	N
ATOM	4267	N	ILE	B	124	2.634	52.134	64.157	1.00	14.71	N
ATOM	4268	CA	ILE	B	124	2.026	50.908	64.661	1.00	15.74	C
ATOM	4269	C	ILE	B	124	0.782	50.571	63.840	1.00	17.78	C
ATOM	4270	O	ILE	B	124	0.563	49.411	63.471	1.00	18.10	O
ATOM	4271	CB	ILE	B	124	1.674	51.054	66.169	1.00	16.68	C
ATOM	4272	CG1	ILE	B	124	2.972	51.070	66.992	1.00	15.09	C
ATOM	4273	CG2	ILE	B	124	0.770	49.917	66.626	1.00	14.41	C
ATOM	4274	CD1	ILE	B	124	2.767	51.346	68.475	1.00	14.68	C
ATOM	4275	N	ASN	B	125	-0.028	51.580	63.536	1.00	16.18	N
ATOM	4276	CA	ASN	B	125	-1.208	51.327	62.736	1.00	16.45	C
ATOM	4277	C	ASN	B	125	-0.843	50.816	61.338	1.00	16.12	C
ATOM	4278	O	ASN	B	125	-1.521	49.933	60.815	1.00	16.98	O
ATOM	4279	CB	ASN	B	125	-2.094	52.580	62.655	1.00	16.29	C

PDBE: 5E3F2601



ATOM	4280	CG	ASN	B	125	-3.100	52.651	63.801	1.00	17.50	C
ATOM	4281	OD1	ASN	B	125	-3.597	51.619	64.262	1.00	14.11	O
ATOM	4282	ND2	ASN	B	125	-3.407	53.862	64.261	1.00	14.16	N
ATOM	4283	N	ASN	B	126	0.226	51.354	60.739	1.00	15.08	N
ATOM	4284	CA	ASN	B	126	0.659	50.908	59.410	1.00	14.44	C
ATOM	4285	C	ASN	B	126	1.083	49.441	59.463	1.00	14.13	C
ATOM	4286	O	ASN	B	126	0.752	48.653	58.583	1.00	16.85	O
ATOM	4287	CB	ASN	B	126	1.849	51.730	58.886	1.00	12.19	C
ATOM	4288	CG	ASN	B	126	1.491	53.171	58.565	1.00	12.70	C
ATOM	4289	OD1	ASN	B	126	0.329	53.508	58.358	1.00	13.16	O
ATOM	4290	ND2	ASN	B	126	2.508	54.030	58.499	1.00	10.31	N
ATOM	4291	N	ALA	B	127	1.832	49.086	60.500	1.00	14.52	N
ATOM	4292	CA	ALA	B	127	2.305	47.717	60.674	1.00	14.75	C
ATOM	4293	C	ALA	B	127	1.126	46.766	60.834	1.00	13.55	C
ATOM	4294	O	ALA	B	127	1.109	45.683	60.251	1.00	13.18	O
ATOM	4295	CB	ALA	B	127	3.224	47.626	61.908	1.00	13.90	C
ATOM	4296	N	LEU	B	128	0.148	47.167	61.640	1.00	13.06	N
ATOM	4297	CA	LEU	B	128	-1.025	46.331	61.860	1.00	14.67	C
ATOM	4298	C	LEU	B	128	-1.847	46.246	60.588	1.00	16.05	C
ATOM	4299	O	LEU	B	128	-2.480	45.222	60.314	1.00	16.87	O
ATOM	4300	CB	LEU	B	128	-1.875	46.882	63.004	1.00	12.04	C
ATOM	4301	CG	LEU	B	128	-1.162	46.862	64.362	1.00	12.67	C
ATOM	4302	CD1	LEU	B	128	-2.037	47.529	65.424	1.00	11.14	C
ATOM	4303	CD2	LEU	B	128	-0.831	45.428	64.754	1.00	9.49	C
ATOM	4304	N	GLN	B	129	-1.829	47.319	59.802	1.00	16.48	N
ATOM	4305	CA	GLN	B	129	-2.572	47.329	58.554	1.00	15.95	C
ATOM	4306	C	GLN	B	129	-1.935	46.371	57.561	1.00	16.09	C
ATOM	4307	O	GLN	B	129	-2.636	45.694	56.808	1.00	14.62	O
ATOM	4308	CB	GLN	B	129	-2.629	48.744	57.974	1.00	16.01	C
ATOM	4309	CG	GLN	B	129	-3.669	49.634	58.649	1.00	18.53	C
ATOM	4310	CD	GLN	B	129	-3.652	51.056	58.128	1.00	19.08	C
ATOM	4311	OE1	GLN	B	129	-2.655	51.764	58.264	1.00	22.19	O
ATOM	4312	NE2	GLN	B	129	-4.755	51.482	57.523	1.00	19.81	N
ATOM	4313	N	ARG	B	130	-0.605	46.302	57.560	1.00	16.63	N
ATOM	4314	CA	ARG	B	130	0.069	45.395	56.640	1.00	16.06	C
ATOM	4315	C	ARG	B	130	-0.199	43.947	57.041	1.00	16.20	C
ATOM	4316	O	ARG	B	130	-0.360	43.085	56.181	1.00	17.52	O
ATOM	4317	CB	ARG	B	130	1.576	45.635	56.619	1.00	14.23	C
ATOM	4318	CG	ARG	B	130	2.272	44.829	55.520	1.00	12.75	C
ATOM	4319	CD	ARG	B	130	1.947	45.405	54.149	1.00	13.73	C
ATOM	4320	NE	ARG	B	130	2.706	46.629	53.908	1.00	15.03	N
ATOM	4321	CZ	ARG	B	130	2.297	47.634	53.141	1.00	13.69	C
ATOM	4322	NH1	ARG	B	130	1.118	47.580	52.532	1.00	12.38	N
ATOM	4323	NH2	ARG	B	130	3.081	48.689	52.970	1.00	12.81	N
ATOM	4324	N	ALA	B	131	-0.232	43.679	58.344	1.00	15.35	N
ATOM	4325	CA	ALA	B	131	-0.502	42.328	58.827	1.00	16.40	C
ATOM	4326	C	ALA	B	131	-1.912	41.955	58.396	1.00	17.59	C
ATOM	4327	O	ALA	B	131	-2.163	40.834	57.958	1.00	17.87	O
ATOM	4328	CB	ALA	B	131	-0.398	42.272	60.337	1.00	15.06	C
ATOM	4329	N	ASP	B	132	-2.824	42.914	58.533	1.00	18.49	N
ATOM	4330	CA	ASP	B	132	-4.226	42.731	58.164	1.00	19.13	C
ATOM	4331	C	ASP	B	132	-4.329	42.368	56.679	1.00	19.52	C
ATOM	4332	O	ASP	B	132	-5.001	41.412	56.312	1.00	19.07	O
ATOM	4333	CB	ASP	B	132	-4.996	44.023	58.452	1.00	18.53	C
ATOM	4334	CG	ASP	B	132	-6.473	43.908	58.146	1.00	20.46	C
ATOM	4335	OD1	ASP	B	132	-7.125	43.002	58.695	1.00	22.23	O
ATOM	4336	OD2	ASP	B	132	-6.990	44.726	57.359	1.00	24.26	O
ATOM	4337	N	GLN	B	133	-3.640	43.139	55.841	1.00	19.13	N
ATOM	4338	CA	GLN	B	133	-3.620	42.935	54.402	1.00	17.68	C
ATOM	4339	C	GLN	B	133	-3.078	41.565	54.037	1.00	18.62	C
ATOM	4340	O	GLN	B	133	-3.665	40.856	53.221	1.00	15.89	O
ATOM	4341	CB	GLN	B	133	-2.759	44.011	53.742	1.00	17.44	C
ATOM	4342	CG	GLN	B	133	-3.350	45.404	53.841	1.00	18.26	C
ATOM	4343	CD	GLN	B	133	-2.297	46.507	53.783	1.00	18.31	C
ATOM	4344	OE1	GLN	B	133	-2.626	47.689	53.842	1.00	18.23	O
ATOM	4345	NE2	GLN	B	133	-1.034	46.123	53.677	1.00	19.66	N
ATOM	4346	N	ILE	B	134	-1.952	41.208	54.647	1.00	19.60	N
ATOM	4347	CA	ILE	B	134	-1.308	39.926	54.399	1.00	20.75	C
ATOM	4348	C	ILE	B	134	-2.196	38.765	54.834	1.00	21.50	C
ATOM	4349	O	ILE	B	134	-2.225	37.730	54.179	1.00	23.86	O
ATOM	4350	CB	ILE	B	134	0.042	39.819	55.152	1.00	20.50	C
ATOM	4351	CG1	ILE	B	134	1.014	40.877	54.627	1.00	17.35	C
ATOM	4352	CG2	ILE	B	134	0.627	38.410	54.982	1.00	16.99	C
ATOM	4353	CD1	ILE	B	134	2.292	40.981	55.434	1.00	16.16	C
ATOM	4354	N	ALA	B	135	-2.911	38.933	55.940	1.00	21.73	N
ATOM	4355	CA	ALA	B	135	-3.792	37.881	56.433	1.00	23.10	C
ATOM	4356	C	ALA	B	135	-4.936	37.652	55.449	1.00	25.15	C
ATOM	4357	O	ALA	B	135	-5.371	36.521	55.226	1.00	25.35	O
ATOM	4358	CB	ALA	B	135	-4.342	38.259	57.786	1.00	21.24	C
ATOM	4359	N	LYS	B	136	-5.420	38.734	54.855	1.00	26.31	N



ATOM	4360	CA	LYS	B	136	-6.511	38.632	53.904	1.00	27.99	C
ATOM	4361	C	LYS	B	136	-6.118	37.798	52.690	1.00	28.66	C
ATOM	4362	O	LYS	B	136	-6.849	36.885	52.296	1.00	28.91	O
ATOM	4363	CB	LYS	B	136	-6.961	40.024	53.451	1.00	27.22	C
ATOM	4364	CG	LYS	B	136	-8.245	39.998	52.638	1.00	28.94	C
ATOM	4365	CD	LYS	B	136	-8.771	41.396	52.354	1.00	30.00	C
ATOM	4366	CE	LYS	B	136	-10.127	41.346	51.658	1.00	29.12	C
ATOM	4367	NZ	LYS	B	136	-10.687	42.709	51.412	1.00	27.72	N
ATOM	4368	N	ILE	B	137	-4.964	38.099	52.097	1.00	27.71	N
ATOM	4369	CA	ILE	B	137	-4.537	37.354	50.921	1.00	28.49	C
ATOM	4370	C	ILE	B	137	-4.054	35.950	51.246	1.00	28.59	C
ATOM	4371	O	ILE	B	137	-3.950	35.118	50.353	1.00	30.23	O
ATOM	4372	CB	ILE	B	137	-3.416	38.075	50.141	1.00	29.49	C
ATOM	4373	CG1	ILE	B	137	-2.146	38.138	50.986	1.00	28.24	C
ATOM	4374	CG2	ILE	B	137	-3.888	39.459	49.718	1.00	30.61	C
ATOM	4375	CD1	ILE	B	137	-0.931	38.585	50.216	1.00	26.96	C
ATOM	4376	N	GLU	B	138	-3.745	35.684	52.512	1.00	27.75	N
ATOM	4377	CA	GLU	B	138	-3.293	34.353	52.897	1.00	28.38	C
ATOM	4378	C	GLU	B	138	-4.467	33.524	53.417	1.00	28.63	C
ATOM	4379	O	GLU	B	138	-4.309	32.350	53.736	1.00	29.06	O
ATOM	4380	CB	GLU	B	138	-2.192	34.429	53.969	1.00	27.70	C
ATOM	4381	CG	GLU	B	138	-0.939	35.185	53.529	1.00	29.49	C
ATOM	4382	CD	GLU	B	138	0.211	35.073	54.521	1.00	28.17	C
ATOM	4383	OE1	GLU	B	138	-0.042	35.129	55.743	1.00	27.80	O
ATOM	4384	OE2	GLU	B	138	1.372	34.944	54.078	1.00	28.08	O
ATOM	4385	N	GLY	B	139	-5.646	34.137	53.481	1.00	30.44	N
ATOM	4386	CA	GLY	B	139	-6.822	33.436	53.968	1.00	30.17	C
ATOM	4387	C	GLY	B	139	-6.635	33.046	55.421	1.00	31.84	C
ATOM	4388	O	GLY	B	139	-7.225	32.079	55.902	1.00	32.45	O
ATOM	4389	N	ASP	B	140	-5.799	33.809	56.120	1.00	32.73	N
ATOM	4390	CA	ASP	B	140	-5.508	33.562	57.525	1.00	31.55	C
ATOM	4391	C	ASP	B	140	-6.515	34.259	58.437	1.00	32.57	C
ATOM	4392	O	ASP	B	140	-6.527	35.485	58.549	1.00	32.18	O
ATOM	4393	CB	ASP	B	140	-4.083	34.030	57.837	1.00	30.60	C
ATOM	4394	CG	ASP	B	140	-3.780	34.047	59.318	1.00	29.79	C
ATOM	4395	OD1	ASP	B	140	-4.577	33.498	60.103	1.00	27.92	O
ATOM	4396	OD2	ASP	B	140	-2.735	34.610	59.697	1.00	30.66	O
ATOM	4397	N	THR	B	141	-7.359	33.466	59.088	1.00	33.82	N
ATOM	4398	CA	THR	B	141	-8.368	34.006	59.988	1.00	35.58	C
ATOM	4399	C	THR	B	141	-7.947	33.829	61.442	1.00	35.44	C
ATOM	4400	O	THR	B	141	-8.756	33.963	62.358	1.00	37.44	O
ATOM	4401	CB	THR	B	141	-9.730	33.326	59.771	1.00	36.56	C
ATOM	4402	OG1	THR	B	141	-9.598	31.914	59.977	1.00	38.79	O
ATOM	4403	CG2	THR	B	141	-10.229	33.582	58.359	1.00	35.88	C
ATOM	4404	N	SER	B	142	-6.668	33.533	61.638	1.00	35.56	N
ATOM	4405	CA	SER	B	142	-6.092	33.350	62.964	1.00	34.39	C
ATOM	4406	C	SER	B	142	-6.444	34.500	63.913	1.00	33.67	C
ATOM	4407	O	SER	B	142	-6.780	34.274	65.076	1.00	35.05	O
ATOM	4408	CB	SER	B	142	-4.568	33.229	62.840	1.00	33.97	C
ATOM	4409	OG	SER	B	142	-3.929	33.402	64.091	1.00	39.16	O
ATOM	4410	N	VAL	B	143	-6.366	35.728	63.410	1.00	31.94	N
ATOM	4411	CA	VAL	B	143	-6.656	36.923	64.203	1.00	29.73	C
ATOM	4412	C	VAL	B	143	-7.956	37.584	63.756	1.00	29.81	C
ATOM	4413	O	VAL	B	143	-8.129	37.904	62.581	1.00	30.19	O
ATOM	4414	CB	VAL	B	143	-5.504	37.955	64.082	1.00	28.85	C
ATOM	4415	CG1	VAL	B	143	-5.856	39.237	64.813	1.00	27.74	C
ATOM	4416	CG2	VAL	B	143	-4.226	37.364	64.641	1.00	28.72	C
ATOM	4417	N	GLU	B	144	-8.855	37.802	64.707	1.00	28.95	N
ATOM	4418	CA	GLU	B	144	-10.146	38.416	64.434	1.00	31.28	C
ATOM	4419	C	GLU	B	144	-10.044	39.915	64.131	1.00	29.05	C
ATOM	4420	O	GLU	B	144	-10.736	40.423	63.250	1.00	28.27	O
ATOM	4421	CB	GLU	B	144	-11.090	38.194	65.625	1.00	35.97	C
ATOM	4422	CG	GLU	B	144	-10.760	39.046	66.850	1.00	43.19	C
ATOM	4423	CD	GLU	B	144	-9.337	38.841	67.361	1.00	48.38	C
ATOM	4424	OE1	GLU	B	144	-8.710	39.841	67.789	1.00	48.25	O
ATOM	4425	OE2	GLU	B	144	-8.853	37.682	67.345	1.00	50.24	O
ATOM	4426	N	ASN	B	145	-9.188	40.619	64.866	1.00	27.55	N
ATOM	4427	CA	ASN	B	145	-9.006	42.059	64.666	1.00	25.02	C
ATOM	4428	C	ASN	B	145	-7.540	42.465	64.780	1.00	24.23	C
ATOM	4429	O	ASN	B	145	-7.019	42.635	65.882	1.00	21.17	O
ATOM	4430	CB	ASN	B	145	-9.813	42.854	65.693	1.00	24.12	C
ATOM	4431	CG	ASN	B	145	-9.578	44.354	65.585	1.00	24.99	C
ATOM	4432	OD1	ASN	B	145	-9.627	45.074	66.580	1.00	27.32	O
ATOM	4433	ND2	ASN	B	145	-9.331	44.830	64.374	1.00	23.70	N
ATOM	4434	N	TRP	B	146	-6.885	42.623	63.633	1.00	23.86	N
ATOM	4435	CA	TRP	B	146	-5.483	43.019	63.584	1.00	21.91	C
ATOM	4436	C	TRP	B	146	-5.296	44.459	64.047	1.00	22.56	C
ATOM	4437	O	TRP	B	146	-4.256	44.823	64.598	1.00	23.60	O
ATOM	4438	CB	TRP	B	146	-4.945	42.876	62.160	1.00	20.68	C
ATOM	4439	CG	TRP	B	146	-4.520	41.492	61.845	1.00	21.75	C



ATOM	4440	CD1	TRP	B	146	-5.204	40.559	61.114	1.00	22.29	C
ATOM	4441	CD2	TRP	B	146	-3.327	40.852	62.304	1.00	21.36	C
ATOM	4442	NE1	TRP	B	146	-4.505	39.371	61.093	1.00	24.45	N
ATOM	4443	CE2	TRP	B	146	-3.349	39.525	61.816	1.00	22.20	C
ATOM	4444	CE3	TRP	B	146	-2.238	41.271	63.085	1.00	21.36	C
ATOM	4445	CZ2	TRP	B	146	-2.322	38.610	62.085	1.00	21.82	C
ATOM	4446	CZ3	TRP	B	146	-1.215	40.361	63.353	1.00	20.79	C
ATOM	4447	CH2	TRP	B	146	-1.268	39.044	62.853	1.00	21.59	C
ATOM	4448	N	LEU	B	147	-6.313	45.275	63.817	1.00	21.44	N
ATOM	4449	CA	LEU	B	147	-6.260	46.670	64.206	1.00	22.14	C
ATOM	4450	C	LEU	B	147	-6.672	46.853	65.653	1.00	21.27	C
ATOM	4451	O	LEU	B	147	-7.725	47.420	65.946	1.00	20.03	O
ATOM	4452	CB	LEU	B	147	-7.149	47.496	63.279	1.00	22.47	C
ATOM	4453	CG	LEU	B	147	-6.459	47.768	61.941	1.00	23.45	C
ATOM	4454	CD1	LEU	B	147	-7.468	48.190	60.891	1.00	27.07	C
ATOM	4455	CD2	LEU	B	147	-5.412	48.858	62.154	1.00	22.72	C
ATOM	4456	N	ALA	B	148	-5.831	46.353	66.554	1.00	19.32	N
ATOM	4457	CA	ALA	B	148	-6.086	46.461	67.981	1.00	19.80	C
ATOM	4458	C	ALA	B	148	-5.981	47.925	68.390	1.00	18.66	C
ATOM	4459	O	ALA	B	148	-5.185	48.673	67.832	1.00	20.41	O
ATOM	4460	CB	ALA	B	148	-5.074	45.615	68.762	1.00	17.86	C
ATOM	4461	N	PRO	B	149	-6.791	48.355	69.370	1.00	18.74	N
ATOM	4462	CA	PRO	B	149	-6.743	49.753	69.812	1.00	18.09	C
ATOM	4463	C	PRO	B	149	-5.411	50.120	70.464	1.00	17.93	C
ATOM	4464	O	PRO	B	149	-4.810	49.314	71.176	1.00	16.47	O
ATOM	4465	CB	PRO	B	149	-7.925	49.851	70.779	1.00	16.42	C
ATOM	4466	CG	PRO	B	149	-8.026	48.466	71.335	1.00	16.89	C
ATOM	4467	CD	PRO	B	149	-7.816	47.603	70.111	1.00	16.52	C
ATOM	4468	N	ILE	B	150	-4.970	51.351	70.220	1.00	17.99	N
ATOM	4469	CA	ILE	B	150	-3.711	51.855	70.754	1.00	15.38	C
ATOM	4470	C	ILE	B	150	-3.909	52.913	71.841	1.00	15.56	C
ATOM	4471	O	ILE	B	150	-4.591	53.917	71.631	1.00	16.87	O
ATOM	4472	CB	ILE	B	150	-2.846	52.499	69.627	1.00	14.59	C
ATOM	4473	CG1	ILE	B	150	-2.531	51.464	68.539	1.00	13.87	C
ATOM	4474	CG2	ILE	B	150	-1.559	53.078	70.218	1.00	11.81	C
ATOM	4475	CD1	ILE	B	150	-1.987	52.073	67.239	1.00	9.95	C
ATOM	4476	N	VAL	B	151	-3.311	52.683	73.002	1.00	13.89	N
ATOM	4477	CA	VAL	B	151	-3.373	53.644	74.091	1.00	14.97	C
ATOM	4478	C	VAL	B	151	-1.982	54.275	74.123	1.00	16.15	C
ATOM	4479	O	VAL	B	151	-0.989	53.592	74.393	1.00	14.37	O
ATOM	4480	CB	VAL	B	151	-3.672	52.965	75.442	1.00	16.44	C
ATOM	4481	CG1	VAL	B	151	-3.503	53.976	76.578	1.00	13.41	C
ATOM	4482	CG2	VAL	B	151	-5.101	52.412	75.440	1.00	15.70	C
ATOM	4483	N	ALA	B	152	-1.918	55.573	73.831	1.00	16.03	N
ATOM	4484	CA	ALA	B	152	-0.654	56.294	73.772	1.00	14.95	C
ATOM	4485	C	ALA	B	152	-0.424	57.293	74.892	1.00	15.48	C
ATOM	4486	O	ALA	B	152	-1.360	57.885	75.420	1.00	14.85	O
ATOM	4487	CB	ALA	B	152	-0.526	56.991	72.426	1.00	15.28	C
ATOM	4488	N	ASP	B	153	0.856	57.471	75.213	1.00	14.80	N
ATOM	4489	CA	ASP	B	153	1.348	58.350	76.264	1.00	15.72	C
ATOM	4490	C	ASP	B	153	1.358	59.813	75.811	1.00	17.20	C
ATOM	4491	O	ASP	B	153	2.061	60.171	74.869	1.00	17.55	O
ATOM	4492	CB	ASP	B	153	2.778	57.927	76.615	1.00	14.56	C
ATOM	4493	CG	ASP	B	153	3.292	58.547	77.900	1.00	16.30	C
ATOM	4494	OD1	ASP	B	153	2.846	59.650	78.286	1.00	15.78	O
ATOM	4495	OD2	ASP	B	153	4.177	57.919	78.520	1.00	19.15	O
ATOM	4496	N	GLY	B	154	0.587	60.656	76.486	1.00	18.36	N
ATOM	4497	CA	GLY	B	154	0.565	62.065	76.132	1.00	19.14	C
ATOM	4498	C	GLY	B	154	1.440	62.818	77.115	1.00	19.96	C
ATOM	4499	O	GLY	B	154	1.599	64.037	77.026	1.00	21.30	O
ATOM	4500	N	GLU	B	155	2.011	62.072	78.058	1.00	19.76	N
ATOM	4501	CA	GLU	B	155	2.875	62.636	79.090	1.00	20.34	C
ATOM	4502	C	GLU	B	155	2.226	63.827	79.776	1.00	19.45	C
ATOM	4503	O	GLU	B	155	1.084	63.728	80.224	1.00	19.37	O
ATOM	4504	CB	GLU	B	155	4.232	63.015	78.494	1.00	20.22	C
ATOM	4505	CG	GLU	B	155	5.085	61.785	78.204	1.00	25.71	C
ATOM	4506	CD	GLU	B	155	6.508	62.116	77.821	1.00	26.49	C
ATOM	4507	OE1	GLU	B	155	7.019	63.155	78.282	1.00	29.54	O
ATOM	4508	OE2	GLU	B	155	7.120	61.328	77.077	1.00	26.08	O
ATOM	4509	N	ALA	B	156	2.936	64.948	79.855	1.00	20.16	N
ATOM	4510	CA	ALA	B	156	2.393	66.135	80.503	1.00	19.74	C
ATOM	4511	C	ALA	B	156	2.000	67.224	79.503	1.00	21.74	C
ATOM	4512	O	ALA	B	156	1.900	68.402	79.861	1.00	22.51	O
ATOM	4513	CB	ALA	B	156	3.388	66.678	81.507	1.00	18.49	C
ATOM	4514	N	GLY	B	157	1.781	66.828	78.251	1.00	21.51	N
ATOM	4515	CA	GLY	B	157	1.372	67.782	77.231	1.00	19.82	C
ATOM	4516	C	GLY	B	157	2.447	68.631	76.568	1.00	21.31	C
ATOM	4517	O	GLY	B	157	2.152	69.355	75.607	1.00	20.25	O
ATOM	4518	N	PHE	B	158	3.681	68.568	77.071	1.00	19.36	N
ATOM	4519	CA	PHE	B	158	4.778	69.342	76.494	1.00	20.04	C

PDB030 = 5E94660



ATOM	4520	C	PHE	B	158	4.507	70.850	76.500	1.00	20.60	C
ATOM	4521	O	PHE	B	158	4.834	71.551	75.547	1.00	21.75	O
ATOM	4522	CB	PHE	B	158	5.036	68.870	75.061	1.00	18.08	C
ATOM	4523	CG	PHE	B	158	5.546	67.455	74.972	1.00	19.58	C
ATOM	4524	CD1	PHE	B	158	6.904	67.180	75.117	1.00	18.78	C
ATOM	4525	CD2	PHE	B	158	4.670	66.396	74.758	1.00	18.09	C
ATOM	4526	CE1	PHE	B	158	7.388	65.869	75.049	1.00	18.50	C
ATOM	4527	CE2	PHE	B	158	5.147	65.074	74.689	1.00	20.02	C
ATOM	4528	CZ	PHE	B	158	6.508	64.816	74.835	1.00	16.44	C
ATOM	4529	N	GLY	B	159	3.912	71.340	77.581	1.00	21.09	N
ATOM	4530	CA	GLY	B	159	3.612	72.755	77.682	1.00	21.25	C
ATOM	4531	C	GLY	B	159	2.230	73.010	78.263	1.00	21.72	C
ATOM	4532	O	GLY	B	159	1.787	72.303	79.169	1.00	22.96	O
ATOM	4533	N	GLY	B	160	1.541	74.013	77.730	1.00	20.25	N
ATOM	4534	CA	GLY	B	160	0.220	74.347	78.229	1.00	20.76	C
ATOM	4535	C	GLY	B	160	-0.924	73.611	77.561	1.00	21.41	C
ATOM	4536	O	GLY	B	160	-0.729	72.597	76.888	1.00	22.38	O
ATOM	4537	N	ALA	B	161	-2.130	74.137	77.741	1.00	21.88	N
ATOM	4538	CA	ALA	B	161	-3.326	73.537	77.168	1.00	21.09	C
ATOM	4539	C	ALA	B	161	-3.298	73.484	75.641	1.00	20.73	C
ATOM	4540	O	ALA	B	161	-3.903	72.595	75.038	1.00	21.66	O
ATOM	4541	CB	ALA	B	161	-4.567	74.295	77.646	1.00	21.34	C
ATOM	4542	N	LEU	B	162	-2.601	74.424	75.009	1.00	20.30	N
ATOM	4543	CA	LEU	B	162	-2.534	74.431	73.548	1.00	20.83	C
ATOM	4544	C	LEU	B	162	-1.610	73.325	73.036	1.00	20.10	C
ATOM	4545	O	LEU	B	162	-1.883	72.708	72.008	1.00	19.63	O
ATOM	4546	CB	LEU	B	162	-2.067	75.801	73.038	1.00	21.45	C
ATOM	4547	CG	LEU	B	162	-2.992	76.974	73.398	1.00	21.75	C
ATOM	4548	CD1	LEU	B	162	-2.414	78.259	72.838	1.00	18.23	C
ATOM	4549	CD2	LEU	B	162	-4.397	76.733	72.843	1.00	21.00	C
ATOM	4550	N	ASN	B	163	-0.519	73.077	73.756	1.00	19.68	N
ATOM	4551	CA	ASN	B	163	0.420	72.020	73.385	1.00	17.50	C
ATOM	4552	C	ASN	B	163	-0.298	70.685	73.570	1.00	17.99	C
ATOM	4553	O	ASN	B	163	-0.168	69.772	72.755	1.00	15.19	O
ATOM	4554	CB	ASN	B	163	1.656	72.079	74.287	1.00	18.26	C
ATOM	4555	CG	ASN	B	163	2.447	73.360	74.106	1.00	17.18	C
ATOM	4556	OD1	ASN	B	163	3.209	73.508	73.144	1.00	19.12	O
ATOM	4557	ND2	ASN	B	163	2.256	74.298	75.017	1.00	13.50	N
ATOM	4558	N	VAL	B	164	-1.054	70.586	74.663	1.00	19.26	N
ATOM	4559	CA	VAL	B	164	-1.835	69.389	74.969	1.00	18.12	C
ATOM	4560	C	VAL	B	164	-2.808	69.158	73.822	1.00	17.31	C
ATOM	4561	O	VAL	B	164	-2.964	68.039	73.328	1.00	18.74	O
ATOM	4562	CB	VAL	B	164	-2.667	69.577	76.272	1.00	18.42	C
ATOM	4563	CG1	VAL	B	164	-3.702	68.456	76.412	1.00	16.64	C
ATOM	4564	CG2	VAL	B	164	-1.744	69.607	77.475	1.00	16.33	C
ATOM	4565	N	TYR	B	165	-3.458	70.237	73.401	1.00	17.95	N
ATOM	4566	CA	TYR	B	165	-4.434	70.171	72.324	1.00	17.28	C
ATOM	4567	C	TYR	B	165	-3.817	69.672	71.028	1.00	16.10	C
ATOM	4568	O	TYR	B	165	-4.373	68.792	70.385	1.00	16.41	O
ATOM	4569	CB	TYR	B	165	-5.087	71.541	72.106	1.00	16.59	C
ATOM	4570	CG	TYR	B	165	-6.112	71.555	70.988	1.00	18.13	C
ATOM	4571	CD1	TYR	B	165	-5.716	71.577	69.647	1.00	16.08	C
ATOM	4572	CD2	TYR	B	165	-7.480	71.510	71.269	1.00	15.76	C
ATOM	4573	CE1	TYR	B	165	-6.657	71.551	68.615	1.00	19.44	C
ATOM	4574	CE2	TYR	B	165	-8.427	71.487	70.245	1.00	17.55	C
ATOM	4575	CZ	TYR	B	165	-8.011	71.506	68.921	1.00	19.86	C
ATOM	4576	OH	TYR	B	165	-8.941	71.470	67.899	1.00	23.51	O
ATOM	4577	N	GLU	B	166	-2.671	70.222	70.640	1.00	16.50	N
ATOM	4578	CA	GLU	B	166	-2.034	69.786	69.402	1.00	15.58	C
ATOM	4579	C	GLU	B	166	-1.563	68.337	69.478	1.00	16.44	C
ATOM	4580	O	GLU	B	166	-1.642	67.604	68.486	1.00	16.37	O
ATOM	4581	CB	GLU	B	166	-0.863	70.704	69.040	1.00	16.97	C
ATOM	4582	CG	GLU	B	166	-1.286	72.057	68.510	1.00	14.73	C
ATOM	4583	CD	GLU	B	166	-2.169	71.951	67.282	1.00	18.17	C
ATOM	4584	OE1	GLU	B	166	-1.736	71.346	66.277	1.00	15.92	O
ATOM	4585	OE2	GLU	B	166	-3.301	72.477	67.320	1.00	17.70	O
ATOM	4586	N	LEU	B	167	-1.074	67.911	70.641	1.00	15.45	N
ATOM	4587	CA	LEU	B	167	-0.638	66.519	70.772	1.00	17.33	C
ATOM	4588	C	LEU	B	167	-1.841	65.574	70.599	1.00	17.65	C
ATOM	4589	O	LEU	B	167	-1.787	64.618	69.816	1.00	17.89	O
ATOM	4590	CB	LEU	B	167	0.031	66.281	72.131	1.00	14.73	C
ATOM	4591	CG	LEU	B	167	0.512	64.853	72.421	1.00	15.89	C
ATOM	4592	CD1	LEU	B	167	1.323	64.303	71.253	1.00	12.01	C
ATOM	4593	CD2	LEU	B	167	1.352	64.862	73.700	1.00	14.13	C
ATOM	4594	N	GLN	B	168	-2.930	65.842	71.318	1.00	16.59	N
ATOM	4595	CA	GLN	B	168	-4.122	65.004	71.195	1.00	16.23	C
ATOM	4596	C	GLN	B	168	-4.566	64.952	69.733	1.00	16.07	C
ATOM	4597	O	GLN	B	168	-4.881	63.885	69.202	1.00	16.37	O
ATOM	4598	CB	GLN	B	168	-5.267	65.552	72.056	1.00	17.20	C
ATOM	4599	CG	GLN	B	168	-6.576	64.748	71.944	1.00	14.92	C



ATOM	4600	CD	GLN	B	168	-6.519	63.408	72.658	1.00	14.03	C
ATOM	4601	OE1	GLN	B	168	-5.524	62.692	72.588	1.00	12.69	O
ATOM	4602	NE2	GLN	B	168	-7.601	63.061	73.340	1.00	12.72	N
ATOM	4603	N	LYS	B	169	-4.585	66.111	69.083	1.00	15.35	N
ATOM	4604	CA	LYS	B	169	-4.987	66.191	67.682	1.00	17.03	C
ATOM	4605	C	LYS	B	169	-4.093	65.347	66.774	1.00	16.00	C
ATOM	4606	O	LYS	B	169	-4.576	64.694	65.847	1.00	17.82	O
ATOM	4607	CB	LYS	B	169	-4.974	67.654	67.203	1.00	16.60	C
ATOM	4608	CG	LYS	B	169	-5.297	67.843	65.714	1.00	15.11	C
ATOM	4609	CD	LYS	B	169	-5.395	69.328	65.368	1.00	18.34	C
ATOM	4610	CE	LYS	B	169	-5.445	69.576	63.863	1.00	19.53	C
ATOM	4611	NZ	LYS	B	169	-5.664	71.031	63.572	1.00	21.63	N
ATOM	4612	N	ALA	B	170	-2.791	65.361	67.041	1.00	15.23	N
ATOM	4613	CA	ALA	B	170	-1.853	64.602	66.233	1.00	14.18	C
ATOM	4614	C	ALA	B	170	-1.978	63.104	66.499	1.00	14.84	C
ATOM	4615	O	ALA	B	170	-1.849	62.291	65.581	1.00	17.33	O
ATOM	4616	CB	ALA	B	170	-0.433	65.073	66.504	1.00	14.61	C
ATOM	4617	N	LEU	B	171	-2.218	62.740	67.754	1.00	14.28	N
ATOM	4618	CA	LEU	B	171	-2.371	61.336	68.121	1.00	12.45	C
ATOM	4619	C	LEU	B	171	-3.598	60.787	67.406	1.00	15.81	C
ATOM	4620	O	LEU	B	171	-3.600	59.649	66.929	1.00	16.11	O
ATOM	4621	CB	LEU	B	171	-2.540	61.192	69.634	1.00	12.89	C
ATOM	4622	CG	LEU	B	171	-1.299	61.472	70.496	1.00	12.15	C
ATOM	4623	CD1	LEU	B	171	-1.680	61.550	71.955	1.00	11.23	C
ATOM	4624	CD2	LEU	B	171	-0.265	60.375	70.280	1.00	13.64	C
ATOM	4625	N	ILE	B	172	-4.643	61.605	67.322	1.00	15.24	N
ATOM	4626	CA	ILE	B	172	-5.861	61.189	66.646	1.00	15.00	C
ATOM	4627	C	ILE	B	172	-5.604	61.055	65.141	1.00	15.46	C
ATOM	4628	O	ILE	B	172	-5.964	60.050	64.529	1.00	15.69	O
ATOM	4629	CB	ILE	B	172	-7.002	62.191	66.923	1.00	15.04	C
ATOM	4630	CG1	ILE	B	172	-7.373	62.121	68.408	1.00	13.85	C
ATOM	4631	CG2	ILE	B	172	-8.203	61.899	66.032	1.00	13.78	C
ATOM	4632	CD1	ILE	B	172	-8.425	63.104	68.842	1.00	12.44	C
ATOM	4633	N	ALA	B	173	-4.969	62.055	64.542	1.00	15.94	N
ATOM	4634	CA	ALA	B	173	-4.675	61.988	63.116	1.00	15.68	C
ATOM	4635	C	ALA	B	173	-3.911	60.706	62.779	1.00	16.43	C
ATOM	4636	O	ALA	B	173	-4.065	60.164	61.686	1.00	16.55	O
ATOM	4637	CB	ALA	B	173	-3.863	63.195	62.690	1.00	17.35	C
ATOM	4638	N	ALA	B	174	-3.099	60.224	63.723	1.00	15.47	N
ATOM	4639	CA	ALA	B	174	-2.302	59.011	63.521	1.00	15.30	C
ATOM	4640	C	ALA	B	174	-3.100	57.730	63.753	1.00	15.49	C
ATOM	4641	O	ALA	B	174	-2.626	56.633	63.432	1.00	13.38	O
ATOM	4642	CB	ALA	B	174	-1.071	59.029	64.431	1.00	14.92	C
ATOM	4643	N	GLY	B	175	-4.290	57.878	64.334	1.00	14.02	N
ATOM	4644	CA	GLY	B	175	-5.163	56.743	64.570	1.00	14.06	C
ATOM	4645	C	GLY	B	175	-5.162	56.156	65.964	1.00	15.61	C
ATOM	4646	O	GLY	B	175	-5.419	54.961	66.125	1.00	15.81	O
ATOM	4647	N	VAL	B	176	-4.895	56.982	66.970	1.00	15.20	N
ATOM	4648	CA	VAL	B	176	-4.849	56.511	68.349	1.00	15.75	C
ATOM	4649	C	VAL	B	176	-6.266	56.244	68.869	1.00	17.56	C
ATOM	4650	O	VAL	B	176	-7.231	56.853	68.402	1.00	17.96	O
ATOM	4651	CB	VAL	B	176	-4.128	57.543	69.260	1.00	15.36	C
ATOM	4652	CG1	VAL	B	176	-5.075	58.665	69.651	1.00	13.85	C
ATOM	4653	CG2	VAL	B	176	-3.566	56.848	70.489	1.00	16.53	C
ATOM	4654	N	ALA	B	177	-6.385	55.319	69.818	1.00	16.43	N
ATOM	4655	CA	ALA	B	177	-7.682	54.970	70.393	1.00	16.93	C
ATOM	4656	C	ALA	B	177	-7.872	55.622	71.759	1.00	16.86	C
ATOM	4657	O	ALA	B	177	-8.986	55.979	72.130	1.00	16.85	O
ATOM	4658	CB	ALA	B	177	-7.812	53.457	70.521	1.00	15.59	C
ATOM	4659	N	GLY	B	178	-6.775	55.767	72.499	1.00	16.56	N
ATOM	4660	CA	GLY	B	178	-6.827	56.375	73.815	1.00	16.68	C
ATOM	4661	C	GLY	B	178	-5.518	57.078	74.134	1.00	18.97	C
ATOM	4662	O	GLY	B	178	-4.481	56.732	73.575	1.00	20.04	O
ATOM	4663	N	SER	B	179	-5.560	58.066	75.024	1.00	18.51	N
ATOM	4664	CA	SER	B	179	-4.359	58.801	75.399	1.00	19.35	C
ATOM	4665	C	SER	B	179	-4.416	59.146	76.881	1.00	19.83	C
ATOM	4666	O	SER	B	179	-5.496	59.434	77.408	1.00	19.91	O
ATOM	4667	CB	SER	B	179	-4.247	60.087	74.564	1.00	19.42	C
ATOM	4668	OG	SER	B	179	-5.328	60.969	74.830	1.00	19.52	O
ATOM	4669	N	HIS	B	180	-3.266	59.102	77.556	1.00	19.02	N
ATOM	4670	CA	HIS	B	180	-3.214	59.427	78.981	1.00	19.22	C
ATOM	4671	C	HIS	B	180	-2.395	60.689	79.254	1.00	19.25	C
ATOM	4672	O	HIS	B	180	-1.430	60.983	78.552	1.00	20.65	O
ATOM	4673	CB	HIS	B	180	-2.696	58.234	79.813	1.00	17.43	C
ATOM	4674	CG	HIS	B	180	-1.251	57.886	79.600	1.00	17.89	C
ATOM	4675	ND1	HIS	B	180	-0.853	56.732	78.953	1.00	19.62	N
ATOM	4676	CD2	HIS	B	180	-0.115	58.475	80.044	1.00	15.47	C
ATOM	4677	CE1	HIS	B	180	0.463	56.622	79.015	1.00	16.09	C
ATOM	4678	NE2	HIS	B	180	0.935	57.667	79.672	1.00	16.88	N
ATOM	4679	N	TRP	B	181	-2.801	61.436	80.278	1.00	18.48	N



ATOM	4680	CA	TRP	B	181	-2.157	62.699	80.630	1.00	17.41	C
ATOM	4681	C	TRP	B	181	-1.887	62.764	82.133	1.00	16.88	C
ATOM	4682	O	TRP	B	181	-2.753	62.417	82.941	1.00	14.88	O
ATOM	4683	CB	TRP	B	181	-3.065	63.858	80.184	1.00	18.35	C
ATOM	4684	CG	TRP	B	181	-3.577	63.663	78.775	1.00	18.73	C
ATOM	4685	CD1	TRP	B	181	-4.573	62.809	78.375	1.00	18.57	C
ATOM	4686	CD2	TRP	B	181	-3.010	64.204	77.571	1.00	18.67	C
ATOM	4687	NE1	TRP	B	181	-4.649	62.776	77.002	1.00	20.59	N
ATOM	4688	CE2	TRP	B	181	-3.702	63.622	76.483	1.00	19.71	C
ATOM	4689	CE3	TRP	B	181	-1.980	65.119	77.306	1.00	18.25	C
ATOM	4690	CZ2	TRP	B	181	-3.396	63.924	75.148	1.00	18.95	C
ATOM	4691	CZ3	TRP	B	181	-1.676	65.420	75.973	1.00	17.40	C
ATOM	4692	CH2	TRP	B	181	-2.384	64.821	74.916	1.00	17.88	C
ATOM	4693	N	GLU	B	182	-0.690	63.220	82.499	1.00	16.98	N
ATOM	4694	CA	GLU	B	182	-0.290	63.298	83.905	1.00	18.54	C
ATOM	4695	C	GLU	B	182	-0.206	64.713	84.465	1.00	18.53	C
ATOM	4696	O	GLU	B	182	0.137	65.658	83.757	1.00	15.62	O
ATOM	4697	CB	GLU	B	182	1.055	62.596	84.097	1.00	17.15	C
ATOM	4698	CG	GLU	B	182	2.137	63.156	83.205	1.00	19.26	C
ATOM	4699	CD	GLU	B	182	3.123	62.104	82.742	1.00	21.68	C
ATOM	4700	OE1	GLU	B	182	2.698	60.967	82.440	1.00	20.38	O
ATOM	4701	OE2	GLU	B	182	4.325	62.422	82.659	1.00	25.38	O
ATOM	4702	N	ASP	B	183	-0.494	64.836	85.760	1.00	21.00	N
ATOM	4703	CA	ASP	B	183	-0.480	66.124	86.442	1.00	21.02	C
ATOM	4704	C	ASP	B	183	0.892	66.612	86.890	1.00	21.64	C
ATOM	4705	O	ASP	B	183	1.047	67.096	88.010	1.00	23.19	O
ATOM	4706	CB	ASP	B	183	-1.441	66.103	87.644	1.00	19.75	C
ATOM	4707	CG	ASP	B	183	-1.242	64.889	88.547	1.00	23.35	C
ATOM	4708	OD1	ASP	B	183	-0.241	64.156	88.373	1.00	22.65	O
ATOM	4709	OD2	ASP	B	183	-2.093	64.670	89.445	1.00	22.62	O
ATOM	4710	N	GLN	B	184	1.882	66.496	86.010	1.00	23.37	N
ATOM	4711	CA	GLN	B	184	3.242	66.954	86.304	1.00	23.85	C
ATOM	4712	C	GLN	B	184	3.562	68.209	85.508	1.00	25.22	C
ATOM	4713	O	GLN	B	184	2.945	68.476	84.469	1.00	25.94	O
ATOM	4714	CB	GLN	B	184	4.278	65.904	85.909	1.00	23.49	C
ATOM	4715	CG	GLN	B	184	4.330	64.658	86.751	1.00	22.58	C
ATOM	4716	CD	GLN	B	184	5.499	63.780	86.357	1.00	22.87	C
ATOM	4717	OE1	GLN	B	184	6.658	64.198	86.437	1.00	22.65	O
ATOM	4718	NE2	GLN	B	184	5.205	62.560	85.918	1.00	22.75	N
ATOM	4719	N	LEU	B	185	4.538	68.974	85.987	1.00	25.00	N
ATOM	4720	CA	LEU	B	185	4.972	70.174	85.279	1.00	24.60	C
ATOM	4721	C	LEU	B	185	5.720	69.645	84.057	1.00	25.16	C
ATOM	4722	O	LEU	B	185	6.656	68.861	84.200	1.00	26.53	O
ATOM	4723	CB	LEU	B	185	5.915	71.000	86.157	1.00	23.53	C
ATOM	4724	CG	LEU	B	185	6.573	72.212	85.497	1.00	23.27	C
ATOM	4725	CD1	LEU	B	185	5.512	73.190	85.032	1.00	22.40	C
ATOM	4726	CD2	LEU	B	185	7.528	72.870	86.475	1.00	21.97	C
ATOM	4727	N	ALA	B	186	5.305	70.062	82.863	1.00	25.26	N
ATOM	4728	CA	ALA	B	186	5.920	69.592	81.621	1.00	25.50	C
ATOM	4729	C	ALA	B	186	7.434	69.772	81.542	1.00	26.05	C
ATOM	4730	O	ALA	B	186	8.159	68.830	81.215	1.00	26.21	O
ATOM	4731	CB	ALA	B	186	5.262	70.269	80.425	1.00	22.92	C
ATOM	4732	N	SER	B	187	7.902	70.978	81.844	1.00	25.64	N
ATOM	4733	CA	SER	B	187	9.325	71.299	81.783	1.00	26.13	C
ATOM	4734	C	SER	B	187	10.218	70.509	82.749	1.00	26.58	C
ATOM	4735	O	SER	B	187	11.443	70.497	82.594	1.00	27.68	O
ATOM	4736	CB	SER	B	187	9.521	72.800	82.013	1.00	23.89	C
ATOM	4737	OG	SER	B	187	8.994	73.178	83.272	1.00	24.24	O
ATOM	4738	N	GLU	B	188	9.620	69.859	83.744	1.00	26.74	N
ATOM	4739	CA	GLU	B	188	10.394	69.072	84.705	1.00	27.40	C
ATOM	4740	C	GLU	B	188	9.844	67.652	84.779	1.00	26.73	C
ATOM	4741	O	GLU	B	188	10.097	66.933	85.748	1.00	25.98	O
ATOM	4742	CB	GLU	B	188	10.318	69.688	86.104	1.00	28.73	C
ATOM	4743	CG	GLU	B	188	10.879	71.092	86.240	1.00	32.77	C
ATOM	4744	CD	GLU	B	188	12.345	71.177	85.877	1.00	35.15	C
ATOM	4745	OE1	GLU	B	188	13.093	70.227	86.208	1.00	37.85	O
ATOM	4746	OE2	GLU	B	188	12.749	72.196	85.273	1.00	33.03	O
ATOM	4747	N	LYS	B	189	9.089	67.255	83.760	1.00	26.50	N
ATOM	4748	CA	LYS	B	189	8.482	65.928	83.737	1.00	27.57	C
ATOM	4749	C	LYS	B	189	9.475	64.831	84.077	1.00	29.62	C
ATOM	4750	O	LYS	B	189	10.599	64.802	83.568	1.00	30.79	O
ATOM	4751	CB	LYS	B	189	7.848	65.650	82.371	1.00	26.11	C
ATOM	4752	CG	LYS	B	189	7.157	64.289	82.241	1.00	24.60	C
ATOM	4753	CD	LYS	B	189	8.142	63.173	81.934	1.00	25.55	C
ATOM	4754	CE	LYS	B	189	7.439	61.925	81.400	1.00	26.48	C
ATOM	4755	NZ	LYS	B	189	6.498	61.309	82.374	1.00	22.06	N
ATOM	4756	N	LYS	B	190	9.047	63.931	84.950	1.00	30.32	N
ATOM	4757	CA	LYS	B	190	9.877	62.816	85.370	1.00	31.53	C
ATOM	4758	C	LYS	B	190	9.118	61.529	85.148	1.00	32.25	C
ATOM	4759	O	LYS	B	190	7.885	61.508	85.161	1.00	32.42	O



ATOM	4760	CB	LYS	B	190	10.219	62.910	86.858	1.00	30.82	C
ATOM	4761	CG	LYS	B	190	11.103	64.065	87.243	1.00	32.20	C
ATOM	4762	CD	LYS	B	190	12.457	63.964	86.581	1.00	33.27	C
ATOM	4763	CE	LYS	B	190	13.365	65.060	87.087	1.00	33.84	C
ATOM	4764	NZ	LYS	B	190	12.743	66.404	86.919	1.00	35.77	N
ATOM	4765	N	SER	B	191	9.862	60.454	84.939	1.00	31.87	N
ATOM	4766	CA	SER	B	191	9.248	59.155	84.764	1.00	32.90	C
ATOM	4767	C	SER	B	191	8.520	58.868	86.078	1.00	31.15	C
ATOM	4768	O	SER	B	191	8.972	59.281	87.149	1.00	30.44	O
ATOM	4769	CB	SER	B	191	10.323	58.103	84.512	1.00	33.18	C
ATOM	4770	OG	SER	B	191	9.733	56.855	84.236	1.00	37.43	O
ATOM	4771	N	GLY	B	192	7.394	58.173	85.993	1.00	30.71	N
ATOM	4772	CA	GLY	B	192	6.621	57.862	87.185	1.00	30.58	C
ATOM	4773	C	GLY	B	192	7.400	57.288	88.356	1.00	29.41	C
ATOM	4774	O	GLY	B	192	7.025	57.483	89.515	1.00	27.51	O
ATOM	4775	N	HIS	B	193	8.490	56.588	88.068	1.00	29.83	N
ATOM	4776	CA	HIS	B	193	9.281	55.986	89.131	1.00	30.80	C
ATOM	4777	C	HIS	B	193	10.669	56.584	89.336	1.00	31.50	C
ATOM	4778	O	HIS	B	193	11.562	55.942	89.898	1.00	31.91	O
ATOM	4779	CB	HIS	B	193	9.350	54.473	88.912	1.00	29.51	C
ATOM	4780	CG	HIS	B	193	7.999	53.835	88.857	1.00	30.60	C
ATOM	4781	ND1	HIS	B	193	7.353	53.564	87.670	1.00	29.30	N
ATOM	4782	CD2	HIS	B	193	7.122	53.523	89.842	1.00	30.47	C
ATOM	4783	CE1	HIS	B	193	6.136	53.117	87.926	1.00	32.28	C
ATOM	4784	NE2	HIS	B	193	5.970	53.083	89.237	1.00	31.28	N
ATOM	4785	N	LEU	B	194	10.834	57.823	88.879	1.00	30.54	N
ATOM	4786	CA	LEU	B	194	12.080	58.561	89.046	1.00	29.52	C
ATOM	4787	C	LEU	B	194	11.734	59.667	90.038	1.00	29.47	C
ATOM	4788	O	LEU	B	194	10.581	60.092	90.108	1.00	29.80	O
ATOM	4789	CB	LEU	B	194	12.537	59.187	87.721	1.00	28.00	C
ATOM	4790	CG	LEU	B	194	13.106	58.290	86.618	1.00	27.63	C
ATOM	4791	CD1	LEU	B	194	13.476	59.151	85.413	1.00	25.95	C
ATOM	4792	CD2	LEU	B	194	14.330	57.550	87.119	1.00	24.39	C
ATOM	4793	N	GLY	B	195	12.717	60.128	90.803	1.00	28.66	N
ATOM	4794	CA	GLY	B	195	12.461	61.183	91.768	1.00	28.34	C
ATOM	4795	C	GLY	B	195	12.417	62.567	91.140	1.00	29.29	C
ATOM	4796	O	GLY	B	195	12.477	62.709	89.912	1.00	30.74	O
ATOM	4797	N	GLY	B	196	12.293	63.587	91.986	1.00	28.08	N
ATOM	4798	CA	GLY	B	196	12.265	64.960	91.515	1.00	28.42	C
ATOM	4799	C	GLY	B	196	11.038	65.360	90.721	1.00	28.07	C
ATOM	4800	O	GLY	B	196	11.132	66.182	89.807	1.00	29.64	O
ATOM	4801	N	LYS	B	197	9.886	64.792	91.066	1.00	26.01	N
ATOM	4802	CA	LYS	B	197	8.647	65.110	90.365	1.00	24.23	C
ATOM	4803	C	LYS	B	197	7.963	66.354	90.922	1.00	23.77	C
ATOM	4804	O	LYS	B	197	7.913	66.566	92.135	1.00	24.22	O
ATOM	4805	CB	LYS	B	197	7.681	63.919	90.412	1.00	23.29	C
ATOM	4806	CG	LYS	B	197	8.202	62.695	89.668	1.00	24.17	C
ATOM	4807	CD	LYS	B	197	7.099	61.707	89.330	1.00	23.21	C
ATOM	4808	CE	LYS	B	197	6.480	61.091	90.572	1.00	23.19	C
ATOM	4809	NZ	LYS	B	197	5.473	60.049	90.218	1.00	23.57	N
ATOM	4810	N	VAL	B	198	7.446	67.176	90.014	1.00	22.31	N
ATOM	4811	CA	VAL	B	198	6.753	68.405	90.365	1.00	20.91	C
ATOM	4812	C	VAL	B	198	5.330	68.358	89.793	1.00	20.51	C
ATOM	4813	O	VAL	B	198	5.139	68.286	88.580	1.00	20.10	O
ATOM	4814	CB	VAL	B	198	7.503	69.637	89.792	1.00	22.04	C
ATOM	4815	CG1	VAL	B	198	6.814	70.923	90.217	1.00	21.79	C
ATOM	4816	CG2	VAL	B	198	8.947	69.628	90.262	1.00	20.17	C
ATOM	4817	N	LEU	B	199	4.338	68.382	90.675	1.00	20.44	N
ATOM	4818	CA	LEU	B	199	2.947	68.344	90.257	1.00	19.52	C
ATOM	4819	C	LEU	B	199	2.489	69.757	89.913	1.00	20.89	C
ATOM	4820	O	LEU	B	199	3.115	70.742	90.307	1.00	21.76	O
ATOM	4821	CB	LEU	B	199	2.052	67.807	91.383	1.00	16.85	C
ATOM	4822	CG	LEU	B	199	2.345	66.474	92.084	1.00	19.30	C
ATOM	4823	CD1	LEU	B	199	1.412	66.339	93.279	1.00	19.05	C
ATOM	4824	CD2	LEU	B	199	2.161	65.298	91.140	1.00	18.18	C
ATOM	4825	N	ILE	B	200	1.400	69.848	89.159	1.00	21.20	N
ATOM	4826	CA	ILE	B	200	0.823	71.133	88.814	1.00	21.49	C
ATOM	4827	C	ILE	B	200	-0.515	71.188	89.559	1.00	20.69	C
ATOM	4828	O	ILE	B	200	-1.003	70.160	90.041	1.00	18.92	O
ATOM	4829	CB	ILE	B	200	0.638	71.281	87.270	1.00	23.12	C
ATOM	4830	CG1	ILE	B	200	0.042	70.009	86.657	1.00	25.83	C
ATOM	4831	CG2	ILE	B	200	1.981	71.542	86.618	1.00	24.37	C
ATOM	4832	CD1	ILE	B	200	-1.450	69.852	86.849	1.00	26.87	C
ATOM	4833	N	PRO	B	201	-1.103	72.386	89.703	1.00	19.74	N
ATOM	4834	CA	PRO	B	201	-2.384	72.517	90.404	1.00	21.89	C
ATOM	4835	C	PRO	B	201	-3.459	71.585	89.848	1.00	22.61	C
ATOM	4836	O	PRO	B	201	-3.474	71.282	88.658	1.00	22.84	O
ATOM	4837	CB	PRO	B	201	-2.730	73.986	90.207	1.00	20.63	C
ATOM	4838	CG	PRO	B	201	-1.387	74.628	90.212	1.00	21.02	C
ATOM	4839	CD	PRO	B	201	-0.583	73.709	89.323	1.00	19.15	C



ATOM	4840	N	THR	B	202	-4.350	71.135	90.725	1.00	23.45	N
ATOM	4841	CA	THR	B	202	-5.428	70.232	90.346	1.00	21.62	C
ATOM	4842	C	THR	B	202	-6.241	70.785	89.187	1.00	21.93	C
ATOM	4843	O	THR	B	202	-6.560	70.065	88.248	1.00	21.83	O
ATOM	4844	CB	THR	B	202	-6.358	69.964	91.546	1.00	21.82	C
ATOM	4845	OG1	THR	B	202	-5.670	69.136	92.489	1.00	23.61	O
ATOM	4846	CG2	THR	B	202	-7.644	69.266	91.111	1.00	19.50	C
ATOM	4847	N	GLN	B	203	-6.557	72.071	89.250	1.00	22.15	N
ATOM	4848	CA	GLN	B	203	-7.336	72.711	88.205	1.00	22.97	C
ATOM	4849	C	GLN	B	203	-6.574	72.758	86.885	1.00	23.01	C
ATOM	4850	O	GLN	B	203	-7.167	72.653	85.811	1.00	23.03	O
ATOM	4851	CB	GLN	B	203	-7.719	74.127	88.632	1.00	22.56	C
ATOM	4852	CG	GLN	B	203	-8.739	74.802	87.720	1.00	25.78	C
ATOM	4853	CD	GLN	B	203	-9.975	73.946	87.466	1.00	27.57	C
ATOM	4854	OE1	GLN	B	203	-10.509	73.316	88.380	1.00	27.98	O
ATOM	4855	NE2	GLN	B	203	-10.442	73.932	86.216	1.00	28.05	N
ATOM	4856	N	GLN	B	204	-5.259	72.909	86.956	1.00	21.49	N
ATOM	4857	CA	GLN	B	204	-4.483	72.966	85.733	1.00	22.03	C
ATOM	4858	C	GLN	B	204	-4.577	71.648	84.987	1.00	22.11	C
ATOM	4859	O	GLN	B	204	-4.649	71.633	83.759	1.00	23.37	O
ATOM	4860	CB	GLN	B	204	-3.019	73.285	86.023	1.00	22.15	C
ATOM	4861	CG	GLN	B	204	-2.263	73.694	84.784	1.00	21.03	C
ATOM	4862	CD	GLN	B	204	-0.802	73.985	85.054	1.00	22.57	C
ATOM	4863	OE1	GLN	B	204	-0.462	74.717	85.981	1.00	22.97	O
ATOM	4864	NE2	GLN	B	204	0.071	73.419	84.233	1.00	22.79	N
ATOM	4865	N	HIS	B	205	-4.571	70.537	85.717	1.00	21.84	N
ATOM	4866	CA	HIS	B	205	-4.666	69.257	85.043	1.00	21.93	C
ATOM	4867	C	HIS	B	205	-6.073	69.066	84.511	1.00	21.39	C
ATOM	4868	O	HIS	B	205	-6.271	68.399	83.496	1.00	23.59	O
ATOM	4869	CB	HIS	B	205	-4.308	68.082	85.954	1.00	20.04	C
ATOM	4870	CG	HIS	B	205	-3.986	66.835	85.192	1.00	20.66	C
ATOM	4871	ND1	HIS	B	205	-4.529	65.605	85.496	1.00	21.61	N
ATOM	4872	CD2	HIS	B	205	-3.221	66.646	84.090	1.00	19.66	C
ATOM	4873	CE1	HIS	B	205	-4.116	64.712	84.613	1.00	19.74	C
ATOM	4874	NE2	HIS	B	205	-3.322	65.319	83.748	1.00	21.55	N
ATOM	4875	N	ILE	B	206	-7.057	69.637	85.193	1.00	20.10	N
ATOM	4876	CA	ILE	B	206	-8.426	69.518	84.712	1.00	20.48	C
ATOM	4877	C	ILE	B	206	-8.517	70.267	83.377	1.00	19.60	C
ATOM	4878	O	ILE	B	206	-9.238	69.852	82.468	1.00	18.51	O
ATOM	4879	CB	ILE	B	206	-9.431	70.083	85.740	1.00	20.89	C
ATOM	4880	CG1	ILE	B	206	-9.493	69.140	86.945	1.00	19.71	C
ATOM	4881	CG2	ILE	B	206	-10.814	70.253	85.099	1.00	18.69	C
ATOM	4882	CD1	ILE	B	206	-10.414	69.607	88.046	1.00	23.12	C
ATOM	4883	N	ARG	B	207	-7.777	71.369	83.258	1.00	19.99	N
ATOM	4884	CA	ARG	B	207	-7.756	72.116	82.005	1.00	21.27	C
ATOM	4885	C	ARG	B	207	-7.140	71.216	80.935	1.00	21.03	C
ATOM	4886	O	ARG	B	207	-7.596	71.201	79.790	1.00	20.69	O
ATOM	4887	CB	ARG	B	207	-6.921	73.394	82.125	1.00	25.14	C
ATOM	4888	CG	ARG	B	207	-7.653	74.564	82.747	1.00	30.17	C
ATOM	4889	CD	ARG	B	207	-6.968	75.879	82.406	1.00	33.61	C
ATOM	4890	NE	ARG	B	207	-5.694	76.058	83.099	1.00	37.62	N
ATOM	4891	CZ	ARG	B	207	-5.581	76.348	84.392	1.00	38.20	C
ATOM	4892	NH1	ARG	B	207	-6.669	76.492	85.139	1.00	39.62	N
ATOM	4893	NH2	ARG	B	207	-4.381	76.511	84.934	1.00	39.09	N
ATOM	4894	N	THR	B	208	-6.100	70.475	81.317	1.00	17.46	N
ATOM	4895	CA	THR	B	208	-5.435	69.557	80.399	1.00	18.28	C
ATOM	4896	C	THR	B	208	-6.421	68.493	79.919	1.00	17.22	C
ATOM	4897	O	THR	B	208	-6.537	68.235	78.723	1.00	15.74	O
ATOM	4898	CB	THR	B	208	-4.225	68.849	81.074	1.00	17.85	C
ATOM	4899	OG1	THR	B	208	-3.169	69.795	81.272	1.00	19.08	O
ATOM	4900	CG2	THR	B	208	-3.711	67.700	80.205	1.00	16.54	C
ATOM	4901	N	LEU	B	209	-7.132	67.880	80.858	1.00	17.13	N
ATOM	4902	CA	LEU	B	209	-8.105	66.852	80.506	1.00	19.72	C
ATOM	4903	C	LEU	B	209	-9.210	67.445	79.626	1.00	20.21	C
ATOM	4904	O	LEU	B	209	-9.728	66.780	78.730	1.00	21.34	O
ATOM	4905	CB	LEU	B	209	-8.695	66.230	81.778	1.00	17.44	C
ATOM	4906	CG	LEU	B	209	-7.653	65.546	82.683	1.00	17.52	C
ATOM	4907	CD1	LEU	B	209	-8.318	65.051	83.947	1.00	16.66	C
ATOM	4908	CD2	LEU	B	209	-6.991	64.384	81.942	1.00	15.67	C
ATOM	4909	N	THR	B	210	-9.546	68.707	79.873	1.00	20.48	N
ATOM	4910	CA	THR	B	210	-10.581	69.391	79.108	1.00	19.84	C
ATOM	4911	C	THR	B	210	-10.110	69.661	77.683	1.00	19.06	C
ATOM	4912	O	THR	B	210	-10.845	69.450	76.716	1.00	19.74	O
ATOM	4913	CB	THR	B	210	-10.976	70.715	79.804	1.00	20.82	C
ATOM	4914	OG1	THR	B	210	-11.690	70.419	81.013	1.00	18.19	O
ATOM	4915	CG2	THR	B	210	-11.839	71.561	78.905	1.00	21.70	C
ATOM	4916	N	SER	B	211	-8.870	70.112	77.558	1.00	19.91	N
ATOM	4917	CA	SER	B	211	-8.287	70.395	76.254	1.00	18.55	C
ATOM	4918	C	SER	B	211	-8.139	69.102	75.450	1.00	18.87	C
ATOM	4919	O	SER	B	211	-8.305	69.091	74.228	1.00	19.28	O



ATOM	4920	CB	SER	B	211	-6.921	71.058	76.431	1.00	18.07	C
ATOM	4921	OG	SER	B	211	-6.345	71.376	75.177	1.00	22.22	O
ATOM	4922	N	ALA	B	212	-7.835	68.008	76.139	1.00	17.82	N
ATOM	4923	CA	ALA	B	212	-7.667	66.729	75.471	1.00	17.53	C
ATOM	4924	C	ALA	B	212	-9.000	66.256	74.906	1.00	19.60	C
ATOM	4925	O	ALA	B	212	-9.052	65.664	73.818	1.00	19.19	O
ATOM	4926	CB	ALA	B	212	-7.108	65.700	76.445	1.00	16.89	C
ATOM	4927	N	ARG	B	213	-10.077	66.507	75.649	1.00	18.12	N
ATOM	4928	CA	ARG	B	213	-11.409	66.115	75.204	1.00	17.72	C
ATOM	4929	C	ARG	B	213	-11.872	67.019	74.065	1.00	18.18	C
ATOM	4930	O	ARG	B	213	-12.529	66.561	73.130	1.00	18.13	O
ATOM	4931	CB	ARG	B	213	-12.421	66.210	76.351	1.00	19.84	C
ATOM	4932	CG	ARG	B	213	-13.834	65.792	75.951	1.00	19.42	C
ATOM	4933	CD	ARG	B	213	-13.936	64.280	75.871	1.00	19.27	C
ATOM	4934	NE	ARG	B	213	-13.918	63.726	77.220	1.00	22.67	N
ATOM	4935	CZ	ARG	B	213	-13.762	62.441	77.514	1.00	23.20	C
ATOM	4936	NH1	ARG	B	213	-13.598	61.538	76.547	1.00	19.11	N
ATOM	4937	NH2	ARG	B	213	-13.781	62.063	78.787	1.00	25.18	N
ATOM	4938	N	LEU	B	214	-11.532	68.305	74.148	1.00	18.41	N
ATOM	4939	CA	LEU	B	214	-11.927	69.257	73.111	1.00	18.16	C
ATOM	4940	C	LEU	B	214	-11.312	68.891	71.760	1.00	20.12	C
ATOM	4941	O	LEU	B	214	-11.995	68.905	70.740	1.00	21.01	O
ATOM	4942	CB	LEU	B	214	-11.516	70.682	73.498	1.00	13.53	C
ATOM	4943	CG	LEU	B	214	-11.911	71.767	72.491	1.00	15.24	C
ATOM	4944	CD1	LEU	B	214	-13.432	71.831	72.366	1.00	12.97	C
ATOM	4945	CD2	LEU	B	214	-11.364	73.119	72.940	1.00	15.55	C
ATOM	4946	N	ALA	B	215	-10.020	68.565	71.749	1.00	20.59	N
ATOM	4947	CA	ALA	B	215	-9.361	68.196	70.503	1.00	19.77	C
ATOM	4948	C	ALA	B	215	-10.072	66.984	69.921	1.00	18.60	C
ATOM	4949	O	ALA	B	215	-10.307	66.910	68.722	1.00	18.21	O
ATOM	4950	CB	ALA	B	215	-7.883	67.876	70.748	1.00	18.26	C
ATOM	4951	N	ALA	B	216	-10.425	66.038	70.784	1.00	19.98	N
ATOM	4952	CA	ALA	B	216	-11.118	64.828	70.351	1.00	19.88	C
ATOM	4953	C	ALA	B	216	-12.490	65.167	69.767	1.00	20.59	C
ATOM	4954	O	ALA	B	216	-12.888	64.616	68.737	1.00	21.79	O
ATOM	4955	CB	ALA	B	216	-11.266	63.860	71.524	1.00	19.84	C
ATOM	4956	N	ASP	B	217	-13.210	66.074	70.423	1.00	19.61	N
ATOM	4957	CA	ASP	B	217	-14.525	66.482	69.943	1.00	19.21	C
ATOM	4958	C	ASP	B	217	-14.434	67.203	68.610	1.00	19.44	C
ATOM	4959	O	ASP	B	217	-15.229	66.945	67.703	1.00	19.85	O
ATOM	4960	CB	ASP	B	217	-15.219	67.392	70.959	1.00	19.27	C
ATOM	4961	CG	ASP	B	217	-15.769	66.626	72.137	1.00	19.25	C
ATOM	4962	OD1	ASP	B	217	-15.932	65.393	72.024	1.00	21.61	O
ATOM	4963	OD2	ASP	B	217	-16.053	67.252	73.172	1.00	22.10	O
ATOM	4964	N	VAL	B	218	-13.474	68.116	68.494	1.00	19.14	N
ATOM	4965	CA	VAL	B	218	-13.291	68.867	67.257	1.00	18.75	C
ATOM	4966	C	VAL	B	218	-12.879	67.923	66.122	1.00	20.80	C
ATOM	4967	O	VAL	B	218	-13.199	68.157	64.952	1.00	22.10	O
ATOM	4968	CB	VAL	B	218	-12.232	69.965	67.436	1.00	18.18	C
ATOM	4969	CG1	VAL	B	218	-11.983	70.687	66.107	1.00	16.91	C
ATOM	4970	CG2	VAL	B	218	-12.703	70.948	68.502	1.00	17.06	C
ATOM	4971	N	ALA	B	219	-12.180	66.850	66.475	1.00	20.22	N
ATOM	4972	CA	ALA	B	219	-11.752	65.865	65.486	1.00	20.60	C
ATOM	4973	C	ALA	B	219	-12.868	64.832	65.269	1.00	20.20	C
ATOM	4974	O	ALA	B	219	-12.709	63.878	64.511	1.00	22.14	O
ATOM	4975	CB	ALA	B	219	-10.458	65.178	65.945	1.00	16.39	C
ATOM	4976	N	ASP	B	220	-13.991	65.027	65.956	1.00	20.64	N
ATOM	4977	CA	ASP	B	220	-15.165	64.156	65.830	1.00	20.77	C
ATOM	4978	C	ASP	B	220	-14.959	62.658	66.116	1.00	21.41	C
ATOM	4979	O	ASP	B	220	-15.517	61.806	65.415	1.00	20.46	O
ATOM	4980	CB	ASP	B	220	-15.783	64.348	64.429	1.00	21.86	C
ATOM	4981	CG	ASP	B	220	-17.166	63.714	64.292	1.00	22.50	C
ATOM	4982	OD1	ASP	B	220	-17.974	63.804	65.237	1.00	23.62	O
ATOM	4983	OD2	ASP	B	220	-17.453	63.138	63.221	1.00	26.90	O
ATOM	4984	N	VAL	B	221	-14.167	62.335	67.140	1.00	20.34	N
ATOM	4985	CA	VAL	B	221	-13.932	60.939	67.518	1.00	18.59	C
ATOM	4986	C	VAL	B	221	-14.055	60.776	69.036	1.00	18.48	C
ATOM	4987	O	VAL	B	221	-13.709	61.679	69.795	1.00	17.55	O
ATOM	4988	CB	VAL	B	221	-12.539	60.439	67.062	1.00	18.85	C
ATOM	4989	CG1	VAL	B	221	-12.481	60.393	65.547	1.00	19.39	C
ATOM	4990	CG2	VAL	B	221	-11.446	61.348	67.608	1.00	20.43	C
ATOM	4991	N	PRO	B	222	-14.551	59.614	69.496	1.00	18.44	N
ATOM	4992	CA	PRO	B	222	-14.724	59.338	70.928	1.00	18.51	C
ATOM	4993	C	PRO	B	222	-13.461	58.838	71.651	1.00	18.56	C
ATOM	4994	O	PRO	B	222	-13.524	57.897	72.449	1.00	18.16	O
ATOM	4995	CB	PRO	B	222	-15.844	58.306	70.931	1.00	16.46	C
ATOM	4996	CG	PRO	B	222	-15.517	57.491	69.724	1.00	19.35	C
ATOM	4997	CD	PRO	B	222	-15.104	58.518	68.680	1.00	16.09	C
ATOM	4998	N	THR	B	223	-12.328	59.484	71.387	1.00	16.72	N
ATOM	4999	CA	THR	B	223	-11.062	59.085	71.994	1.00	18.06	C



ATOM	5000	C	THR	B	223	-11.153	58.860	73.502	1.00	19.46	C
ATOM	5001	O	THR	B	223	-11.706	59.679	74.236	1.00	20.60	O
ATOM	5002	CB	THR	B	223	-9.964	60.125	71.730	1.00	18.12	C
ATOM	5003	OG1	THR	B	223	-9.885	60.388	70.324	1.00	19.12	O
ATOM	5004	CG2	THR	B	223	-8.616	59.598	72.203	1.00	18.69	C
ATOM	5005	N	VAL	B	224	-10.613	57.738	73.962	1.00	17.54	N
ATOM	5006	CA	VAL	B	224	-10.627	57.431	75.385	1.00	18.27	C
ATOM	5007	C	VAL	B	224	-9.563	58.291	76.076	1.00	19.91	C
ATOM	5008	O	VAL	B	224	-8.378	58.227	75.735	1.00	19.58	O
ATOM	5009	CB	VAL	B	224	-10.342	55.926	75.632	1.00	17.58	C
ATOM	5010	CG1	VAL	B	224	-10.168	55.658	77.114	1.00	16.61	C
ATOM	5011	CG2	VAL	B	224	-11.494	55.092	75.089	1.00	14.58	C
ATOM	5012	N	VAL	B	225	-10.001	59.100	77.036	1.00	19.45	N
ATOM	5013	CA	VAL	B	225	-9.119	59.991	77.775	1.00	19.37	C
ATOM	5014	C	VAL	B	225	-8.808	59.422	79.152	1.00	20.29	C
ATOM	5015	O	VAL	B	225	-9.705	59.109	79.929	1.00	21.24	O
ATOM	5016	CB	VAL	B	225	-9.756	61.381	77.939	1.00	19.44	C
ATOM	5017	CG1	VAL	B	225	-8.866	62.275	78.808	1.00	17.79	C
ATOM	5018	CG2	VAL	B	225	-9.981	62.003	76.567	1.00	18.42	C
ATOM	5019	N	ILE	B	226	-7.520	59.293	79.439	1.00	20.64	N
ATOM	5020	CA	ILE	B	226	-7.060	58.754	80.703	1.00	18.37	C
ATOM	5021	C	ILE	B	226	-6.315	59.807	81.508	1.00	19.66	C
ATOM	5022	O	ILE	B	226	-5.429	60.492	80.989	1.00	19.99	O
ATOM	5023	CB	ILE	B	226	-6.115	57.581	80.463	1.00	18.84	C
ATOM	5024	CG1	ILE	B	226	-6.836	56.493	79.667	1.00	19.98	C
ATOM	5025	CG2	ILE	B	226	-5.594	57.057	81.784	1.00	17.21	C
ATOM	5026	CD1	ILE	B	226	-5.944	55.318	79.310	1.00	20.85	C
ATOM	5027	N	ALA	B	227	-6.679	59.944	82.777	1.00	19.40	N
ATOM	5028	CA	ALA	B	227	-6.010	60.898	83.647	1.00	18.60	C
ATOM	5029	C	ALA	B	227	-5.093	60.122	84.578	1.00	19.30	C
ATOM	5030	O	ALA	B	227	-5.505	59.121	85.183	1.00	17.83	O
ATOM	5031	CB	ALA	B	227	-7.029	61.693	84.457	1.00	20.38	C
ATOM	5032	N	ARG	B	228	-3.847	60.578	84.677	1.00	18.86	N
ATOM	5033	CA	ARG	B	228	-2.853	59.954	85.540	1.00	17.68	C
ATOM	5034	C	ARG	B	228	-2.374	60.952	86.585	1.00	19.47	C
ATOM	5035	O	ARG	B	228	-2.175	62.126	86.279	1.00	18.78	O
ATOM	5036	CB	ARG	B	228	-1.658	59.475	84.710	1.00	17.68	C
ATOM	5037	CG	ARG	B	228	-0.348	59.356	85.490	1.00	17.49	C
ATOM	5038	CD	ARG	B	228	0.822	58.918	84.602	1.00	15.89	C
ATOM	5039	NE	ARG	B	228	2.100	59.249	85.226	1.00	19.12	N
ATOM	5040	CZ	ARG	B	228	3.288	58.815	84.813	1.00	20.02	C
ATOM	5041	NH1	ARG	B	228	3.393	58.011	83.760	1.00	22.13	N
ATOM	5042	NH2	ARG	B	228	4.380	59.194	85.454	1.00	19.18	N
ATOM	5043	N	THR	B	229	-2.201	60.494	87.823	1.00	19.62	N
ATOM	5044	CA	THR	B	229	-1.706	61.378	88.866	1.00	19.91	C
ATOM	5045	C	THR	B	229	-0.397	60.829	89.415	1.00	20.62	C
ATOM	5046	O	THR	B	229	-0.259	59.626	89.628	1.00	20.34	O
ATOM	5047	CB	THR	B	229	-2.714	61.548	90.030	1.00	20.02	C
ATOM	5048	OG1	THR	B	229	-2.158	62.446	91.001	1.00	21.15	O
ATOM	5049	CG2	THR	B	229	-3.016	60.207	90.699	1.00	19.53	C
ATOM	5050	N	ASP	B	230	0.565	61.719	89.633	1.00	20.49	N
ATOM	5051	CA	ASP	B	230	1.873	61.332	90.151	1.00	21.07	C
ATOM	5052	C	ASP	B	230	2.073	61.775	91.597	1.00	21.30	C
ATOM	5053	O	ASP	B	230	3.200	61.786	92.103	1.00	22.63	O
ATOM	5054	CB	ASP	B	230	2.970	61.937	89.272	1.00	19.22	C
ATOM	5055	CG	ASP	B	230	3.198	61.148	88.007	1.00	21.83	C
ATOM	5056	OD1	ASP	B	230	3.920	60.130	88.069	1.00	22.70	O
ATOM	5057	OD2	ASP	B	230	2.652	61.533	86.951	1.00	19.14	O
ATOM	5058	N	ALA	B	231	0.980	62.117	92.267	1.00	22.31	N
ATOM	5059	CA	ALA	B	231	1.042	62.594	93.647	1.00	23.19	C
ATOM	5060	C	ALA	B	231	1.512	61.575	94.687	1.00	23.83	C
ATOM	5061	O	ALA	B	231	1.860	61.947	95.803	1.00	22.33	O
ATOM	5062	CB	ALA	B	231	-0.322	63.151	94.056	1.00	24.95	C
ATOM	5063	N	GLU	B	232	1.521	60.297	94.331	1.00	23.71	N
ATOM	5064	CA	GLU	B	232	1.937	59.266	95.273	1.00	25.77	C
ATOM	5065	C	GLU	B	232	3.366	59.484	95.771	1.00	25.90	C
ATOM	5066	O	GLU	B	232	3.647	59.312	96.962	1.00	26.62	O
ATOM	5067	CB	GLU	B	232	1.807	57.885	94.624	1.00	27.51	C
ATOM	5068	CG	GLU	B	232	1.721	56.719	95.595	1.00	33.51	C
ATOM	5069	CD	GLU	B	232	3.076	56.158	95.973	1.00	37.71	C
ATOM	5070	OE1	GLU	B	232	3.837	55.767	95.062	1.00	41.27	O
ATOM	5071	OE2	GLU	B	232	3.381	56.100	97.181	1.00	41.02	O
ATOM	5072	N	ALA	B	233	4.265	59.882	94.872	1.00	24.09	N
ATOM	5073	CA	ALA	B	233	5.661	60.104	95.249	1.00	23.56	C
ATOM	5074	C	ALA	B	233	6.131	61.561	95.149	1.00	24.50	C
ATOM	5075	O	ALA	B	233	7.122	61.940	95.777	1.00	26.15	O
ATOM	5076	CB	ALA	B	233	6.572	59.207	94.405	1.00	22.01	C
ATOM	5077	N	ALA	B	234	5.430	62.377	94.369	1.00	23.14	N
ATOM	5078	CA	ALA	B	234	5.814	63.776	94.208	1.00	22.79	C
ATOM	5079	C	ALA	B	234	5.697	64.559	95.515	1.00	24.37	C



ATOM	5080	O	ALA B 234	4.654	64.551	96.167	1.00	23.83	O
ATOM	5081	CB	ALA B 234	4.962	64.427	93.135	1.00	21.36	C
ATOM	5082	N	THR B 235	6.777	65.240	95.885	1.00	24.30	N
ATOM	5083	CA	THR B 235	6.815	66.035	97.106	1.00	25.87	C
ATOM	5084	C	THR B 235	6.885	67.521	96.776	1.00	25.03	C
ATOM	5085	O	THR B 235	7.102	68.349	97.657	1.00	26.81	O
ATOM	5086	CB	THR B 235	8.038	65.681	97.964	1.00	26.38	C
ATOM	5087	OG1	THR B 235	9.229	65.996	97.233	1.00	27.61	O
ATOM	5088	CG2	THR B 235	8.040	64.194	98.309	1.00	26.47	C
ATOM	5089	N	LEU B 236	6.707	67.851	95.502	1.00	24.04	N
ATOM	5090	CA	LEU B 236	6.736	69.239	95.057	1.00	22.85	C
ATOM	5091	C	LEU B 236	5.529	69.547	94.168	1.00	22.47	C
ATOM	5092	O	LEU B 236	4.991	68.670	93.484	1.00	20.90	O
ATOM	5093	CB	LEU B 236	8.031	69.530	94.279	1.00	21.59	C
ATOM	5094	CG	LEU B 236	9.375	69.471	95.026	1.00	23.71	C
ATOM	5095	CD1	LEU B 236	10.518	69.402	94.028	1.00	21.79	C
ATOM	5096	CD2	LEU B 236	9.532	70.696	95.928	1.00	21.30	C
ATOM	5097	N	ILE B 237	5.107	70.803	94.195	1.00	21.43	N
ATOM	5098	CA	ILE B 237	3.990	71.266	93.390	1.00	21.22	C
ATOM	5099	C	ILE B 237	4.344	72.701	93.007	1.00	21.54	C
ATOM	5100	O	ILE B 237	4.980	73.417	93.788	1.00	21.30	O
ATOM	5101	CB	ILE B 237	2.666	71.204	94.192	1.00	20.96	C
ATOM	5102	CG1	ILE B 237	1.490	71.573	93.286	1.00	20.78	C
ATOM	5103	CG2	ILE B 237	2.743	72.122	95.404	1.00	20.45	C
ATOM	5104	CD1	ILE B 237	0.138	71.378	93.939	1.00	19.19	C
ATOM	5105	N	THR B 238	3.945	73.120	91.808	1.00	21.63	N
ATOM	5106	CA	THR B 238	4.276	74.457	91.319	1.00	22.03	C
ATOM	5107	C	THR B 238	3.580	75.619	92.005	1.00	21.77	C
ATOM	5108	O	THR B 238	4.121	76.719	92.047	1.00	22.77	O
ATOM	5109	CB	THR B 238	3.994	74.597	89.807	1.00	23.66	C
ATOM	5110	OG1	THR B 238	2.593	74.410	89.566	1.00	24.44	O
ATOM	5111	CG2	THR B 238	4.797	73.572	89.008	1.00	22.31	C
ATOM	5112	N	SER B 239	2.387	75.386	92.537	1.00	21.99	N
ATOM	5113	CA	SER B 239	1.642	76.462	93.177	1.00	23.56	C
ATOM	5114	C	SER B 239	0.662	75.960	94.237	1.00	25.34	C
ATOM	5115	O	SER B 239	0.278	74.787	94.245	1.00	24.62	O
ATOM	5116	CB	SER B 239	0.891	77.260	92.101	1.00	21.76	C
ATOM	5117	OG	SER B 239	0.101	78.294	92.666	1.00	25.17	O
ATOM	5118	N	ASP B 240	0.267	76.859	95.135	1.00	26.35	N
ATOM	5119	CA	ASP B 240	-0.675	76.527	96.200	1.00	27.81	C
ATOM	5120	C	ASP B 240	-2.006	77.222	95.930	1.00	28.97	C
ATOM	5121	O	ASP B 240	-2.866	77.316	96.806	1.00	30.03	O
ATOM	5122	CB	ASP B 240	-0.109	76.965	97.559	1.00	27.75	C
ATOM	5123	CG	ASP B 240	0.099	78.473	97.658	1.00	28.97	C
ATOM	5124	OD1	ASP B 240	0.268	79.142	96.618	1.00	32.07	O
ATOM	5125	OD2	ASP B 240	0.115	78.995	98.787	1.00	31.40	O
ATOM	5126	N	VAL B 241	-2.173	77.689	94.698	1.00	29.19	N
ATOM	5127	CA	VAL B 241	-3.377	78.399	94.299	1.00	29.01	C
ATOM	5128	C	VAL B 241	-4.670	77.593	94.427	1.00	29.93	C
ATOM	5129	O	VAL B 241	-5.705	78.142	94.810	1.00	30.46	O
ATOM	5130	CB	VAL B 241	-3.244	78.929	92.843	1.00	29.48	C
ATOM	5131	CG1	VAL B 241	-3.073	77.773	91.871	1.00	29.34	C
ATOM	5132	CG2	VAL B 241	-4.463	79.755	92.473	1.00	29.98	C
ATOM	5133	N	ASP B 242	-4.619	76.299	94.125	1.00	29.61	N
ATOM	5134	CA	ASP B 242	-5.815	75.465	94.194	1.00	29.58	C
ATOM	5135	C	ASP B 242	-6.114	74.961	95.609	1.00	30.89	C
ATOM	5136	O	ASP B 242	-5.332	74.213	96.196	1.00	30.81	O
ATOM	5137	CB	ASP B 242	-5.688	74.273	93.237	1.00	28.10	C
ATOM	5138	CG	ASP B 242	-7.026	73.602	92.961	1.00	27.31	C
ATOM	5139	OD1	ASP B 242	-7.748	73.294	93.931	1.00	28.76	O
ATOM	5140	OD2	ASP B 242	-7.357	73.374	91.778	1.00	26.78	O
ATOM	5141	N	GLU B 243	-7.267	75.365	96.134	1.00	31.39	N
ATOM	5142	CA	GLU B 243	-7.692	74.989	97.476	1.00	32.96	C
ATOM	5143	C	GLU B 243	-7.715	73.489	97.726	1.00	31.86	C
ATOM	5144	O	GLU B 243	-7.527	73.041	98.853	1.00	31.81	O
ATOM	5145	CB	GLU B 243	-9.069	75.587	97.773	1.00	36.15	C
ATOM	5146	CG	GLU B 243	-9.049	77.099	97.914	1.00	41.70	C
ATOM	5147	CD	GLU B 243	-10.424	77.686	98.149	1.00	45.15	C
ATOM	5148	OE1	GLU B 243	-11.058	77.338	99.167	1.00	47.04	O
ATOM	5149	OE2	GLU B 243	-10.872	78.496	97.311	1.00	48.92	O
ATOM	5150	N	ARG B 244	-7.944	72.709	96.680	1.00	31.44	N
ATOM	5151	CA	ARG B 244	-7.972	71.265	96.836	1.00	28.10	C
ATOM	5152	C	ARG B 244	-6.581	70.698	97.104	1.00	27.33	C
ATOM	5153	O	ARG B 244	-6.458	69.564	97.571	1.00	26.75	O
ATOM	5154	CB	ARG B 244	-8.563	70.619	95.587	1.00	29.77	C
ATOM	5155	CG	ARG B 244	-10.062	70.802	95.457	1.00	29.12	C
ATOM	5156	CD	ARG B 244	-10.527	70.491	94.044	1.00	27.26	C
ATOM	5157	NE	ARG B 244	-9.920	71.414	93.093	1.00	27.46	N
ATOM	5158	CZ	ARG B 244	-10.334	71.578	91.843	1.00	26.69	C
ATOM	5159	NH1	ARG B 244	-11.365	70.877	91.391	1.00	25.55	N



ATOM	5160	NH2	ARG	B	244	-9.720	72.448	91.050	1.00	25.32	N
ATOM	5161	N	ASP	B	245	-5.542	71.486	96.817	1.00	25.32	N
ATOM	5162	CA	ASP	B	245	-4.159	71.048	97.027	1.00	25.42	C
ATOM	5163	C	ASP	B	245	-3.568	71.578	98.324	1.00	25.31	C
ATOM	5164	O	ASP	B	245	-2.668	70.971	98.907	1.00	26.58	O
ATOM	5165	CB	ASP	B	245	-3.261	71.500	95.871	1.00	24.82	C
ATOM	5166	CG	ASP	B	245	-3.745	71.003	94.532	1.00	25.94	C
ATOM	5167	OD1	ASP	B	245	-4.164	69.824	94.466	1.00	23.27	O
ATOM	5168	OD2	ASP	B	245	-3.696	71.788	93.552	1.00	25.04	O
ATOM	5169	N	GLN	B	246	-4.077	72.717	98.769	1.00	26.09	N
ATOM	5170	CA	GLN	B	246	-3.597	73.348	99.988	1.00	26.95	C
ATOM	5171	C	GLN	B	246	-3.486	72.443	101.211	1.00	26.44	C
ATOM	5172	O	GLN	B	246	-2.524	72.545	101.967	1.00	27.38	O
ATOM	5173	CB	GLN	B	246	-4.463	74.565	100.299	1.00	27.50	C
ATOM	5174	CG	GLN	B	246	-4.105	75.757	99.425	1.00	28.46	C
ATOM	5175	CD	GLN	B	246	-5.171	76.824	99.422	1.00	32.35	C
ATOM	5176	OE1	GLN	B	246	-6.013	76.883	100.322	1.00	33.14	O
ATOM	5177	NE2	GLN	B	246	-5.138	77.688	98.409	1.00	31.35	N
ATOM	5178	N	PRO	B	247	-4.458	71.540	101.420	1.00	26.46	N
ATOM	5179	CA	PRO	B	247	-4.384	70.656	102.584	1.00	26.43	C
ATOM	5180	C	PRO	B	247	-3.073	69.895	102.687	1.00	27.36	C
ATOM	5181	O	PRO	B	247	-2.678	69.479	103.773	1.00	29.21	O
ATOM	5182	CB	PRO	B	247	-5.564	69.710	102.376	1.00	26.84	C
ATOM	5183	CG	PRO	B	247	-6.561	70.574	101.685	1.00	26.90	C
ATOM	5184	CD	PRO	B	247	-5.702	71.300	100.666	1.00	26.02	C
ATOM	5185	N	PHE	B	248	-2.391	69.728	101.560	1.00	27.21	N
ATOM	5186	CA	PHE	B	248	-1.144	68.973	101.536	1.00	27.84	C
ATOM	5187	C	PHE	B	248	0.128	69.822	101.515	1.00	28.07	C
ATOM	5188	O	PHE	B	248	1.220	69.311	101.766	1.00	27.76	O
ATOM	5189	CB	PHE	B	248	-1.167	68.031	100.329	1.00	26.94	C
ATOM	5190	CG	PHE	B	248	-2.387	67.161	100.273	1.00	25.83	C
ATOM	5191	CD1	PHE	B	248	-2.501	66.043	101.096	1.00	27.61	C
ATOM	5192	CD2	PHE	B	248	-3.437	67.469	99.411	1.00	26.03	C
ATOM	5193	CE1	PHE	B	248	-3.648	65.241	101.060	1.00	25.44	C
ATOM	5194	CE2	PHE	B	248	-4.588	66.678	99.366	1.00	24.16	C
ATOM	5195	CZ	PHE	B	248	-4.694	65.561	100.191	1.00	25.28	C
ATOM	5196	N	ILE	B	249	-0.020	71.112	101.226	1.00	29.80	N
ATOM	5197	CA	ILE	B	249	1.111	72.034	101.154	1.00	31.23	C
ATOM	5198	C	ILE	B	249	1.733	72.282	102.525	1.00	31.78	C
ATOM	5199	O	ILE	B	249	1.053	72.720	103.450	1.00	31.75	O
ATOM	5200	CB	ILE	B	249	0.677	73.394	100.560	1.00	31.69	C
ATOM	5201	CG1	ILE	B	249	-0.037	73.186	99.222	1.00	33.28	C
ATOM	5202	CG2	ILE	B	249	1.888	74.283	100.355	1.00	33.03	C
ATOM	5203	CD1	ILE	B	249	0.815	72.562	98.159	1.00	34.23	C
ATOM	5204	N	THR	B	250	3.032	72.019	102.647	1.00	32.74	N
ATOM	5205	CA	THR	B	250	3.733	72.208	103.915	1.00	34.59	C
ATOM	5206	C	THR	B	250	4.099	73.667	104.164	1.00	35.10	C
ATOM	5207	O	THR	B	250	4.262	74.089	105.311	1.00	34.15	O
ATOM	5208	CB	THR	B	250	5.038	71.392	103.971	1.00	35.40	C
ATOM	5209	OG1	THR	B	250	6.056	72.066	103.215	1.00	36.46	O
ATOM	5210	CG2	THR	B	250	4.817	69.995	103.406	1.00	33.82	C
ATOM	5211	N	GLY	B	251	4.243	74.431	103.086	1.00	35.87	N
ATOM	5212	CA	GLY	B	251	4.593	75.833	103.226	1.00	36.74	C
ATOM	5213	C	GLY	B	251	6.031	76.132	102.848	1.00	36.60	C
ATOM	5214	O	GLY	B	251	6.365	77.261	102.508	1.00	37.13	O
ATOM	5215	N	GLU	B	252	6.889	75.122	102.903	1.00	37.31	N
ATOM	5216	CA	GLU	B	252	8.293	75.308	102.557	1.00	36.09	C
ATOM	5217	C	GLU	B	252	8.421	75.496	101.052	1.00	35.71	C
ATOM	5218	O	GLU	B	252	7.630	74.947	100.279	1.00	33.31	O
ATOM	5219	CB	GLU	B	252	9.092	74.092	102.994	1.00	37.79	C
ATOM	5220	CG	GLU	B	252	8.784	73.660	104.408	1.00	41.51	C
ATOM	5221	CD	GLU	B	252	9.162	72.222	104.653	1.00	44.03	C
ATOM	5222	OE1	GLU	B	252	10.372	71.912	104.609	1.00	46.64	O
ATOM	5223	OE2	GLU	B	252	8.247	71.403	104.879	1.00	44.86	C
ATOM	5224	N	ARG	B	253	9.428	76.262	100.644	1.00	35.63	N
ATOM	5225	CA	ARG	B	253	9.665	76.549	99.233	1.00	35.95	C
ATOM	5226	C	ARG	B	253	11.099	76.262	98.811	1.00	35.90	C
ATOM	5227	O	ARG	B	253	12.023	76.355	99.620	1.00	35.41	O
ATOM	5228	CB	ARG	B	253	9.337	78.013	98.953	1.00	38.43	C
ATOM	5229	CG	ARG	B	253	7.889	78.372	99.230	1.00	40.46	C
ATOM	5230	CD	ARG	B	253	7.047	78.247	97.972	1.00	43.75	C
ATOM	5231	NE	ARG	B	253	7.259	79.371	97.059	1.00	44.79	N
ATOM	5232	CZ	ARG	B	253	6.939	80.629	97.344	1.00	46.65	C
ATOM	5233	NH1	ARG	B	253	6.392	80.929	98.514	1.00	47.32	N
ATOM	5234	NH2	ARG	B	253	7.166	81.591	96.460	1.00	48.69	N
ATOM	5235	N	THR	B	254	11.276	75.928	97.535	1.00	33.87	N
ATOM	5236	CA	THR	B	254	12.589	75.619	96.977	1.00	32.93	C
ATOM	5237	C	THR	B	254	13.182	76.840	96.269	1.00	34.43	C
ATOM	5238	O	THR	B	254	12.497	77.837	96.059	1.00	33.91	O
ATOM	5239	CB	THR	B	254	12.492	74.475	95.949	1.00	32.00	C



ATOM	5240	OG1	THR	B	254	11.670	74.896	94.851	1.00	26.15	O
ATOM	5241	CG2	THR	B	254	11.884	73.228	96.588	1.00	29.15	C
ATOM	5242	N	ARG	B	255	14.458	76.761	95.902	1.00	36.71	N
ATOM	5243	CA	ARG	B	255	15.116	77.867	95.206	1.00	38.10	C
ATOM	5244	C	ARG	B	255	14.370	78.213	93.925	1.00	36.99	C
ATOM	5245	O	ARG	B	255	14.305	79.378	93.528	1.00	36.33	O
ATOM	5246	CB	ARG	B	255	16.563	77.511	94.846	1.00	41.22	C
ATOM	5247	CG	ARG	B	255	17.514	77.525	96.019	1.00	49.27	C
ATOM	5248	CD	ARG	B	255	18.959	77.200	95.611	1.00	53.63	C
ATOM	5249	NE	ARG	B	255	19.757	78.401	95.386	1.00	58.71	N
ATOM	5250	CZ	ARG	B	255	19.965	79.349	96.299	1.00	61.44	C
ATOM	5251	NH1	ARG	B	255	19.436	79.249	97.514	1.00	61.98	N
ATOM	5252	NH2	ARG	B	255	20.705	80.407	95.994	1.00	63.53	N
ATOM	5253	N	GLU	B	256	13.817	77.193	93.274	1.00	34.54	N
ATOM	5254	CA	GLU	B	256	13.085	77.392	92.029	1.00	32.92	C
ATOM	5255	C	GLU	B	256	11.709	78.008	92.258	1.00	32.31	C
ATOM	5256	O	GLU	B	256	11.049	78.426	91.312	1.00	32.48	O
ATOM	5257	CB	GLU	B	256	12.927	76.063	91.276	1.00	32.25	C
ATOM	5258	CG	GLU	B	256	14.239	75.353	90.981	1.00	31.74	C
ATOM	5259	CD	GLU	B	256	14.615	74.352	92.056	1.00	32.35	C
ATOM	5260	OE1	GLU	B	256	14.337	74.610	93.245	1.00	33.14	O
ATOM	5261	OE2	GLU	B	256	15.202	73.309	91.712	1.00	34.81	O
ATOM	5262	N	GLY	B	257	11.278	78.061	93.514	1.00	31.36	N
ATOM	5263	CA	GLY	B	257	9.983	78.633	93.818	1.00	29.41	C
ATOM	5264	C	GLY	B	257	8.868	77.614	93.948	1.00	29.06	C
ATOM	5265	O	GLY	B	257	7.704	77.988	94.053	1.00	30.14	O
ATOM	5266	N	PHE	B	258	9.208	76.329	93.932	1.00	28.91	N
ATOM	5267	CA	PHE	B	258	8.200	75.283	94.070	1.00	27.90	C
ATOM	5268	C	PHE	B	258	7.795	75.168	95.538	1.00	28.39	C
ATOM	5269	O	PHE	B	258	8.476	75.695	96.418	1.00	28.99	O
ATOM	5270	CB	PHE	B	258	8.740	73.924	93.596	1.00	25.76	C
ATOM	5271	CG	PHE	B	258	9.213	73.911	92.167	1.00	25.13	C
ATOM	5272	CD1	PHE	B	258	8.465	74.517	91.161	1.00	25.03	C
ATOM	5273	CD2	PHE	B	258	10.397	73.267	91.824	1.00	24.00	C
ATOM	5274	CE1	PHE	B	258	8.895	74.478	89.827	1.00	23.73	C
ATOM	5275	CE2	PHE	B	258	10.833	73.221	90.506	1.00	25.62	C
ATOM	5276	CZ	PHE	B	258	10.079	73.830	89.502	1.00	25.09	C
ATOM	5277	N	TYR	B	259	6.684	74.481	95.794	1.00	28.00	N
ATOM	5278	CA	TYR	B	259	6.194	74.280	97.152	1.00	25.77	C
ATOM	5279	C	TYR	B	259	6.285	72.799	97.513	1.00	28.23	C
ATOM	5280	O	TYR	B	259	6.003	71.925	96.683	1.00	27.13	O
ATOM	5281	CB	TYR	B	259	4.728	74.700	97.282	1.00	25.32	C
ATOM	5282	CG	TYR	B	259	4.434	76.174	97.074	1.00	25.89	C
ATOM	5283	CD1	TYR	B	259	4.598	76.778	95.824	1.00	24.11	C
ATOM	5284	CD2	TYR	B	259	3.963	76.961	98.126	1.00	24.87	C
ATOM	5285	CE1	TYR	B	259	4.297	78.130	95.631	1.00	23.13	C
ATOM	5286	CE2	TYR	B	259	3.660	78.313	97.939	1.00	25.34	C
ATOM	5287	CZ	TYR	B	259	3.828	78.886	96.693	1.00	23.52	C
ATOM	5288	OH	TYR	B	259	3.520	80.215	96.518	1.00	28.32	O
ATOM	5289	N	ARG	B	260	6.685	72.521	98.750	1.00	27.65	N
ATOM	5290	CA	ARG	B	260	6.759	71.152	99.227	1.00	29.53	C
ATOM	5291	C	ARG	B	260	5.319	70.740	99.503	1.00	30.07	C
ATOM	5292	O	ARG	B	260	4.507	71.559	99.940	1.00	30.29	O
ATOM	5293	CB	ARG	B	260	7.574	71.069	100.521	1.00	31.21	C
ATOM	5294	CG	ARG	B	260	9.069	71.185	100.327	1.00	32.27	C
ATOM	5295	CD	ARG	B	260	9.603	69.985	99.568	1.00	34.27	C
ATOM	5296	NE	ARG	B	260	11.025	70.117	99.280	1.00	35.76	N
ATOM	5297	CZ	ARG	B	260	11.696	69.306	98.473	1.00	36.96	C
ATOM	5298	NH1	ARG	B	260	11.072	68.301	97.875	1.00	39.49	N
ATOM	5299	NH2	ARG	B	260	12.986	69.505	98.252	1.00	37.51	N
ATOM	5300	N	THR	B	261	5.004	69.478	99.240	1.00	29.35	N
ATOM	5301	CA	THR	B	261	3.658	68.965	99.458	1.00	28.11	C
ATOM	5302	C	THR	B	261	3.763	67.520	99.940	1.00	28.62	C
ATOM	5303	O	THR	B	261	4.662	66.787	99.527	1.00	27.03	O
ATOM	5304	CB	THR	B	261	2.831	69.017	98.148	1.00	27.47	C
ATOM	5305	OG1	THR	B	261	1.492	68.566	98.398	1.00	26.60	O
ATOM	5306	CG2	THR	B	261	3.479	68.137	97.078	1.00	25.96	C
ATOM	5307	N	LYS	B	262	2.848	67.120	100.818	1.00	30.09	N
ATOM	5308	CA	LYS	B	262	2.855	65.764	101.360	1.00	31.51	C
ATOM	5309	C	LYS	B	262	2.329	64.755	100.346	1.00	30.00	C
ATOM	5310	O	LYS	B	262	1.164	64.807	99.956	1.00	29.01	O
ATOM	5311	CB	LYS	B	262	2.014	65.710	102.637	1.00	33.30	C
ATOM	5312	CG	LYS	B	262	2.545	66.594	103.751	1.00	39.93	C
ATOM	5313	CD	LYS	B	262	1.672	66.519	105.000	1.00	44.64	C
ATOM	5314	CE	LYS	B	262	2.251	67.362	106.131	1.00	46.86	C
ATOM	5315	NZ	LYS	B	262	3.636	66.925	106.490	1.00	49.39	N
ATOM	5316	N	ASN	B	263	3.196	63.835	99.928	1.00	30.14	N
ATOM	5317	CA	ASN	B	263	2.827	62.811	98.950	1.00	30.65	C
ATOM	5318	C	ASN	B	263	2.092	61.641	99.590	1.00	30.53	C
ATOM	5319	O	ASN	B	263	1.858	61.625	100.794	1.00	30.86	O



ATOM	5320	CB	ASN	B	263	4.075	62.287	98.233	1.00	30.25	C
ATOM	5321	CG	ASN	B	263	5.081	61.677	99.189	1.00	31.80	C
ATOM	5322	OD1	ASN	B	263	5.529	62.331	100.128	1.00	31.30	O
ATOM	5323	ND2	ASN	B	263	5.442	60.417	98.953	1.00	30.12	N
ATOM	5324	N	GLY	B	264	1.733	60.656	98.774	1.00	31.03	N
ATOM	5325	CA	GLY	B	264	1.034	59.498	99.295	1.00	29.51	C
ATOM	5326	C	GLY	B	264	-0.276	59.253	98.580	1.00	30.32	C
ATOM	5327	O	GLY	B	264	-0.626	59.965	97.638	1.00	27.62	O
ATOM	5328	N	ILE	B	265	-1.007	58.247	99.049	1.00	30.52	N
ATOM	5329	CA	ILE	B	265	-2.278	57.867	98.462	1.00	32.28	C
ATOM	5330	C	ILE	B	265	-3.393	58.880	98.703	1.00	32.57	C
ATOM	5331	O	ILE	B	265	-4.284	59.035	97.866	1.00	32.10	O
ATOM	5332	CB	ILE	B	265	-2.733	56.493	98.998	1.00	34.01	C
ATOM	5333	CG1	ILE	B	265	-3.947	56.002	98.212	1.00	33.84	C
ATOM	5334	CG2	ILE	B	265	-3.075	56.599	100.481	1.00	33.57	C
ATOM	5335	CD1	ILE	B	265	-4.324	54.565	98.515	1.00	35.36	C
ATOM	5336	N	GLU	B	266	-3.349	59.570	99.840	1.00	32.28	N
ATOM	5337	CA	GLU	B	266	-4.385	60.543	100.153	1.00	31.43	C
ATOM	5338	C	GLU	B	266	-4.523	61.604	99.058	1.00	29.42	C
ATOM	5339	O	GLU	B	266	-5.633	61.888	98.609	1.00	27.64	O
ATOM	5340	CB	GLU	B	266	-4.122	61.187	101.521	1.00	35.47	C
ATOM	5341	CG	GLU	B	266	-5.153	62.244	101.913	1.00	43.06	C
ATOM	5342	CD	GLU	B	266	-5.096	62.626	103.390	1.00	47.22	C
ATOM	5343	OE1	GLU	B	266	-3.979	62.697	103.951	1.00	48.57	O
ATOM	5344	OE2	GLU	B	266	-6.174	62.871	103.984	1.00	48.38	O
ATOM	5345	N	PRO	B	267	-3.401	62.202	98.610	1.00	27.44	N
ATOM	5346	CA	PRO	B	267	-3.469	63.222	97.554	1.00	26.48	C
ATOM	5347	C	PRO	B	267	-3.964	62.626	96.230	1.00	25.48	C
ATOM	5348	O	PRO	B	267	-4.682	63.280	95.472	1.00	25.93	O
ATOM	5349	CB	PRO	B	267	-2.024	63.713	97.448	1.00	24.89	C
ATOM	5350	CG	PRO	B	267	-1.496	63.499	98.813	1.00	27.18	C
ATOM	5351	CD	PRO	B	267	-2.050	62.151	99.189	1.00	27.19	C
ATOM	5352	N	CYS	B	268	-3.568	61.384	95.959	1.00	24.68	N
ATOM	5353	CA	CYS	B	268	-3.968	60.696	94.733	1.00	24.26	C
ATOM	5354	C	CYS	B	268	-5.467	60.483	94.700	1.00	24.80	C
ATOM	5355	O	CYS	B	268	-6.101	60.615	93.654	1.00	25.33	O
ATOM	5356	CB	CYS	B	268	-3.264	59.344	94.625	1.00	22.93	C
ATOM	5357	SG	CYS	B	268	-1.496	59.490	94.432	1.00	22.58	S
ATOM	5358	N	ILE	B	269	-6.029	60.142	95.853	1.00	25.90	N
ATOM	5359	CA	ILE	B	269	-7.463	59.920	95.967	1.00	25.27	C
ATOM	5360	C	ILE	B	269	-8.201	61.236	95.730	1.00	25.15	C
ATOM	5361	O	ILE	B	269	-9.182	61.278	94.991	1.00	26.65	O
ATOM	5362	CB	ILE	B	269	-7.824	59.359	97.366	1.00	25.27	C
ATOM	5363	CG1	ILE	B	269	-7.314	57.919	97.487	1.00	24.44	C
ATOM	5364	CG2	ILE	B	269	-9.324	59.426	97.596	1.00	23.47	C
ATOM	5365	CD1	ILE	B	269	-7.404	57.346	98.895	1.00	22.64	C
ATOM	5366	N	ALA	B	270	-7.717	62.313	96.340	1.00	23.32	N
ATOM	5367	CA	ALA	B	270	-8.362	63.612	96.178	1.00	23.33	C
ATOM	5368	C	ALA	B	270	-8.350	64.039	94.716	1.00	23.40	C
ATOM	5369	O	ALA	B	270	-9.391	64.364	94.140	1.00	24.89	O
ATOM	5370	CB	ALA	B	270	-7.661	64.662	97.040	1.00	22.77	C
ATOM	5371	N	ARG	B	271	-7.168	64.030	94.115	1.00	22.04	N
ATOM	5372	CA	ARG	B	271	-7.028	64.420	92.722	1.00	21.37	C
ATOM	5373	C	ARG	B	271	-7.843	63.518	91.798	1.00	21.65	C
ATOM	5374	O	ARG	B	271	-8.453	63.991	90.836	1.00	21.24	O
ATOM	5375	CB	ARG	B	271	-5.549	64.397	92.330	1.00	21.35	C
ATOM	5376	CG	ARG	B	271	-4.767	65.553	92.925	1.00	20.45	C
ATOM	5377	CD	ARG	B	271	-3.268	65.414	92.721	1.00	20.72	C
ATOM	5378	NE	ARG	B	271	-2.583	66.640	93.114	1.00	18.81	N
ATOM	5379	CZ	ARG	B	271	-2.236	67.610	92.277	1.00	20.55	C
ATOM	5380	NH1	ARG	B	271	-2.489	67.504	90.978	1.00	23.32	N
ATOM	5381	NH2	ARG	B	271	-1.663	68.708	92.745	1.00	22.81	N
ATOM	5382	N	ALA	B	272	-7.869	62.223	92.102	1.00	20.59	N
ATOM	5383	CA	ALA	B	272	-8.613	61.278	91.285	1.00	22.95	C
ATOM	5384	C	ALA	B	272	-10.094	61.627	91.283	1.00	24.93	C
ATOM	5385	O	ALA	B	272	-10.757	61.542	90.247	1.00	26.59	O
ATOM	5386	CB	ALA	B	272	-8.403	59.859	91.797	1.00	23.34	C
ATOM	5387	N	LYS	B	273	-10.614	62.020	92.442	1.00	24.50	N
ATOM	5388	CA	LYS	B	273	-12.018	62.392	92.547	1.00	25.24	C
ATOM	5389	C	LYS	B	273	-12.269	63.655	91.744	1.00	24.72	C
ATOM	5390	O	LYS	B	273	-13.312	63.805	91.115	1.00	26.86	O
ATOM	5391	CB	LYS	B	273	-12.405	62.629	94.008	1.00	26.49	C
ATOM	5392	CG	LYS	B	273	-12.389	61.367	94.856	1.00	29.44	C
ATOM	5393	CD	LYS	B	273	-12.641	61.694	96.318	1.00	30.81	C
ATOM	5394	CE	LYS	B	273	-12.678	60.433	97.168	1.00	31.90	C
ATOM	5395	NZ	LYS	B	273	-12.948	60.745	98.601	1.00	33.19	N
ATOM	5396	N	ALA	B	274	-11.309	64.568	91.767	1.00	24.11	N
ATOM	5397	CA	ALA	B	274	-11.453	65.810	91.026	1.00	24.38	C
ATOM	5398	C	ALA	B	274	-11.376	65.600	89.508	1.00	24.82	C
ATOM	5399	O	ALA	B	274	-12.027	66.326	88.755	1.00	25.42	O



ATOM	5400	CB	ALA	B	274	-10.391	66.810	91.476	1.00	24.52	C
ATOM	5401	N	TYR	B	275	-10.593	64.613	89.062	1.00	24.62	N
ATOM	5402	CA	TYR	B	275	-10.446	64.335	87.626	1.00	23.06	C
ATOM	5403	C	TYR	B	275	-11.541	63.440	87.054	1.00	23.16	C
ATOM	5404	O	TYR	B	275	-11.819	63.493	85.860	1.00	22.90	O
ATOM	5405	CB	TYR	B	275	-9.113	63.643	87.313	1.00	20.87	C
ATOM	5406	CG	TYR	B	275	-7.859	64.325	87.808	1.00	19.51	C
ATOM	5407	CD1	TYR	B	275	-7.806	65.707	87.994	1.00	19.88	C
ATOM	5408	CD2	TYR	B	275	-6.706	63.582	88.062	1.00	18.91	C
ATOM	5409	CE1	TYR	B	275	-6.631	66.331	88.426	1.00	17.72	C
ATOM	5410	CE2	TYR	B	275	-5.534	64.189	88.488	1.00	19.07	C
ATOM	5411	CZ	TYR	B	275	-5.500	65.561	88.671	1.00	19.43	C
ATOM	5412	OH	TYR	B	275	-4.341	66.151	89.119	1.00	20.08	O
ATOM	5413	N	ALA	B	276	-12.140	62.610	87.906	1.00	24.38	N
ATOM	5414	CA	ALA	B	276	-13.179	61.651	87.502	1.00	23.60	C
ATOM	5415	C	ALA	B	276	-14.186	62.103	86.438	1.00	23.68	C
ATOM	5416	O	ALA	B	276	-14.446	61.379	85.473	1.00	23.97	O
ATOM	5417	CB	ALA	B	276	-13.930	61.157	88.740	1.00	21.71	C
ATOM	5418	N	PRO	B	277	-14.774	63.298	86.604	1.00	23.23	N
ATOM	5419	CA	PRO	B	277	-15.751	63.787	85.628	1.00	23.16	C
ATOM	5420	C	PRO	B	277	-15.123	64.065	84.269	1.00	24.43	C
ATOM	5421	O	PRO	B	277	-15.821	64.154	83.256	1.00	24.01	O
ATOM	5422	CB	PRO	B	277	-16.282	65.066	86.274	1.00	22.72	C
ATOM	5423	CG	PRO	B	277	-16.030	64.862	87.736	1.00	21.60	C
ATOM	5424	CD	PRO	B	277	-14.662	64.235	87.734	1.00	23.80	C
ATOM	5425	N	PHE	B	278	-13.801	64.189	84.253	1.00	24.25	N
ATOM	5426	CA	PHE	B	278	-13.078	64.491	83.026	1.00	23.48	C
ATOM	5427	C	PHE	B	278	-12.208	63.336	82.543	1.00	22.91	C
ATOM	5428	O	PHE	B	278	-11.345	63.527	81.689	1.00	22.06	O
ATOM	5429	CB	PHE	B	278	-12.211	65.727	83.259	1.00	23.95	C
ATOM	5430	CG	PHE	B	278	-12.979	66.912	83.778	1.00	24.38	C
ATOM	5431	CD1	PHE	B	278	-13.701	67.727	82.912	1.00	25.77	C
ATOM	5432	CD2	PHE	B	278	-13.017	67.186	85.142	1.00	24.87	C
ATOM	5433	CE1	PHE	B	278	-14.457	68.803	83.400	1.00	25.17	C
ATOM	5434	CE2	PHE	B	278	-13.766	68.254	85.638	1.00	22.96	C
ATOM	5435	CZ	PHE	B	278	-14.488	69.064	84.766	1.00	22.03	C
ATOM	5436	N	ALA	B	279	-12.441	62.139	83.068	1.00	22.08	N
ATOM	5437	CA	ALA	B	279	-11.629	60.996	82.674	1.00	24.09	C
ATOM	5438	C	ALA	B	279	-12.385	59.681	82.507	1.00	23.78	C
ATOM	5439	O	ALA	B	279	-13.154	59.276	83.381	1.00	25.52	O
ATOM	5440	CB	ALA	B	279	-10.493	60.811	83.683	1.00	24.45	C
ATOM	5441	N	ASP	B	280	-12.144	59.009	81.383	1.00	23.32	N
ATOM	5442	CA	ASP	B	280	-12.777	57.725	81.109	1.00	23.12	C
ATOM	5443	C	ASP	B	280	-12.095	56.637	81.943	1.00	23.59	C
ATOM	5444	O	ASP	B	280	-12.667	55.578	82.201	1.00	22.56	O
ATOM	5445	CB	ASP	B	280	-12.683	57.387	79.617	1.00	22.51	C
ATOM	5446	CG	ASP	B	280	-13.372	58.424	78.737	1.00	23.40	C
ATOM	5447	OD1	ASP	B	280	-14.504	58.834	79.064	1.00	23.10	O
ATOM	5448	OD2	ASP	B	280	-12.792	58.821	77.709	1.00	21.68	O
ATOM	5449	N	LEU	B	281	-10.860	56.907	82.353	1.00	24.16	N
ATOM	5450	CA	LEU	B	281	-10.096	55.984	83.189	1.00	24.20	C
ATOM	5451	C	LEU	B	281	-9.160	56.819	84.034	1.00	23.94	C
ATOM	5452	O	LEU	B	281	-8.714	57.890	83.606	1.00	24.28	O
ATOM	5453	CB	LEU	B	281	-9.270	55.008	82.347	1.00	24.24	C
ATOM	5454	CG	LEU	B	281	-10.025	53.942	81.554	1.00	24.39	C
ATOM	5455	CD1	LEU	B	281	-9.755	54.111	80.074	1.00	25.06	C
ATOM	5456	CD2	LEU	B	281	-9.595	52.567	82.019	1.00	23.22	C
ATOM	5457	N	ILE	B	282	-8.871	56.339	85.237	1.00	22.69	N
ATOM	5458	CA	ILE	B	282	-7.976	57.053	86.130	1.00	21.64	C
ATOM	5459	C	ILE	B	282	-6.850	56.127	86.544	1.00	21.77	C
ATOM	5460	O	ILE	B	282	-7.068	54.954	86.848	1.00	21.53	O
ATOM	5461	CB	ILE	B	282	-8.722	57.570	87.365	1.00	24.47	C
ATOM	5462	CG1	ILE	B	282	-9.887	58.456	86.915	1.00	23.67	C
ATOM	5463	CG2	ILE	B	282	-7.762	58.340	88.270	1.00	22.15	C
ATOM	5464	CD1	ILE	B	282	-10.643	59.120	88.046	1.00	28.03	C
ATOM	5465	N	TRP	B	283	-5.639	56.670	86.550	1.00	21.82	N
ATOM	5466	CA	TRP	B	283	-4.449	55.907	86.877	1.00	20.80	C
ATOM	5467	C	TRP	B	283	-3.596	56.584	87.944	1.00	22.22	C
ATOM	5468	O	TRP	B	283	-3.329	57.779	87.889	1.00	23.02	O
ATOM	5469	CB	TRP	B	283	-3.672	55.682	85.574	1.00	21.00	C
ATOM	5470	CG	TRP	B	283	-2.209	55.328	85.657	1.00	20.99	C
ATOM	5471	CD1	TRP	B	283	-1.543	54.755	86.704	1.00	19.78	C
ATOM	5472	CD2	TRP	B	283	-1.245	55.480	84.603	1.00	18.38	C
ATOM	5473	NE1	TRP	B	283	-0.222	54.544	86.367	1.00	18.82	N
ATOM	5474	CE2	TRP	B	283	-0.015	54.978	85.084	1.00	18.20	C
ATOM	5475	CE3	TRP	B	283	-1.305	55.989	83.299	1.00	17.32	C
ATOM	5476	CZ2	TRP	B	283	1.152	54.971	84.303	1.00	19.26	C
ATOM	5477	CZ3	TRP	B	283	-0.146	55.981	82.520	1.00	18.71	C
ATOM	5478	CH2	TRP	B	283	1.066	55.475	83.028	1.00	18.14	C
ATOM	5479	N	MET	B	284	-3.179	55.794	88.926	1.00	23.17	N



ATOM	5480	CA	MET	B	284	-2.352	56.278	90.017	1.00	23.56	C
ATOM	5481	C	MET	B	284	-0.997	55.580	89.984	1.00	23.26	C
ATOM	5482	O	MET	B	284	-0.931	54.362	90.093	1.00	24.37	O
ATOM	5483	CB	MET	B	284	-3.038	55.972	91.351	1.00	24.29	C
ATOM	5484	CG	MET	B	284	-2.176	56.218	92.573	1.00	24.76	C
ATOM	5485	SD	MET	B	284	-2.885	55.497	94.069	1.00	25.14	S
ATOM	5486	CE	MET	B	284	-1.482	55.567	95.155	1.00	24.71	C
ATOM	5487	N	GLU	B	285	0.082	56.334	89.822	1.00	23.40	N
ATOM	5488	CA	GLU	B	285	1.403	55.714	89.825	1.00	25.48	C
ATOM	5489	C	GLU	B	285	1.718	55.300	91.255	1.00	26.04	C
ATOM	5490	O	GLU	B	285	1.370	56.009	92.198	1.00	26.47	O
ATOM	5491	CB	GLU	B	285	2.474	56.689	89.329	1.00	24.79	C
ATOM	5492	CG	GLU	B	285	2.551	56.828	87.815	1.00	25.62	C
ATOM	5493	CD	GLU	B	285	3.043	55.557	87.134	1.00	26.81	C
ATOM	5494	OE1	GLU	B	285	2.289	54.564	87.082	1.00	27.96	O
ATOM	5495	OE2	GLU	B	285	4.194	55.549	86.654	1.00	27.54	O
ATOM	5496	N	THR	B	286	2.358	54.146	91.420	1.00	25.37	N
ATOM	5497	CA	THR	B	286	2.714	53.667	92.751	1.00	26.55	C
ATOM	5498	C	THR	B	286	4.184	53.256	92.778	1.00	26.48	C
ATOM	5499	O	THR	B	286	4.772	52.976	91.741	1.00	25.95	O
ATOM	5500	CB	THR	B	286	1.826	52.470	93.176	1.00	26.77	C
ATOM	5501	OG1	THR	B	286	2.017	51.372	92.276	1.00	25.95	O
ATOM	5502	CG2	THR	B	286	0.355	52.872	93.158	1.00	28.26	C
ATOM	5503	N	GLY	B	287	4.776	53.232	93.967	1.00	28.30	N
ATOM	5504	CA	GLY	B	287	6.177	52.863	94.086	1.00	28.64	C
ATOM	5505	C	GLY	B	287	6.443	51.367	94.143	1.00	29.13	C
ATOM	5506	O	GLY	B	287	7.594	50.939	94.052	1.00	30.33	O
ATOM	5507	N	THR	B	288	5.387	50.569	94.294	1.00	28.84	N
ATOM	5508	CA	THR	B	288	5.517	49.114	94.366	1.00	27.07	C
ATOM	5509	C	THR	B	288	4.252	48.418	93.861	1.00	25.83	C
ATOM	5510	O	THR	B	288	3.180	49.019	93.812	1.00	22.79	O
ATOM	5511	CB	THR	B	288	5.730	48.630	95.823	1.00	27.87	C
ATOM	5512	OG1	THR	B	288	4.545	48.895	96.581	1.00	28.19	O
ATOM	5513	CG2	THR	B	288	6.902	49.341	96.476	1.00	27.46	C
ATOM	5514	N	PRO	B	289	4.367	47.138	93.470	1.00	26.62	N
ATOM	5515	CA	PRO	B	289	3.210	46.378	92.984	1.00	28.37	C
ATOM	5516	C	PRO	B	289	2.474	45.870	94.229	1.00	29.55	C
ATOM	5517	O	PRO	B	289	2.823	44.831	94.788	1.00	31.89	O
ATOM	5518	CB	PRO	B	289	3.857	45.258	92.175	1.00	27.04	C
ATOM	5519	CG	PRO	B	289	5.094	44.972	92.958	1.00	28.29	C
ATOM	5520	CD	PRO	B	289	5.610	46.357	93.317	1.00	27.48	C
ATOM	5521	N	ASP	B	290	1.463	46.615	94.661	1.00	30.25	N
ATOM	5522	CA	ASP	B	290	0.729	46.280	95.874	1.00	31.16	C
ATOM	5523	C	ASP	B	290	-0.789	46.232	95.705	1.00	30.66	C
ATOM	5524	O	ASP	B	290	-1.444	47.268	95.607	1.00	30.86	O
ATOM	5525	CB	ASP	B	290	1.084	47.305	96.950	1.00	33.07	C
ATOM	5526	CG	ASP	B	290	0.664	46.871	98.329	1.00	34.42	C
ATOM	5527	OD1	ASP	B	290	-0.527	46.563	98.531	1.00	35.13	O
ATOM	5528	OD2	ASP	B	290	1.538	46.847	99.216	1.00	37.93	O
ATOM	5529	N	LEU	B	291	-1.344	45.025	95.705	1.00	30.06	N
ATOM	5530	CA	LEU	B	291	-2.779	44.841	95.547	1.00	30.29	C
ATOM	5531	C	LEU	B	291	-3.590	45.548	96.627	1.00	30.49	C
ATOM	5532	O	LEU	B	291	-4.699	46.018	96.368	1.00	30.36	O
ATOM	5533	CB	LEU	B	291	-3.119	43.346	95.536	1.00	29.01	C
ATOM	5534	CG	LEU	B	291	-2.645	42.538	94.324	1.00	28.57	C
ATOM	5535	CD1	LEU	B	291	-3.049	41.080	94.484	1.00	27.32	C
ATOM	5536	CD2	LEU	B	291	-3.255	43.121	93.054	1.00	29.12	C
ATOM	5537	N	GLU	B	292	-3.042	45.624	97.835	1.00	30.47	N
ATOM	5538	CA	GLU	B	292	-3.744	46.280	98.927	1.00	31.51	C
ATOM	5539	C	GLU	B	292	-3.802	47.793	98.726	1.00	29.55	C
ATOM	5540	O	GLU	B	292	-4.829	48.418	98.985	1.00	30.30	O
ATOM	5541	CB	GLU	B	292	-3.082	45.958	100.265	1.00	34.24	C
ATOM	5542	CG	GLU	B	292	-4.092	45.635	101.351	1.00	42.81	C
ATOM	5543	CD	GLU	B	292	-5.219	46.662	101.433	1.00	45.79	C
ATOM	5544	OE1	GLU	B	292	-4.972	47.793	101.909	1.00	48.69	O
ATOM	5545	OE2	GLU	B	292	-6.353	46.338	101.015	1.00	46.85	O
ATOM	5546	N	ALA	B	293	-2.703	48.387	98.271	1.00	27.71	N
ATOM	5547	CA	ALA	B	293	-2.694	49.827	98.027	1.00	27.46	C
ATOM	5548	C	ALA	B	293	-3.667	50.109	96.887	1.00	26.46	C
ATOM	5549	O	ALA	B	293	-4.403	51.093	96.911	1.00	27.16	O
ATOM	5550	CB	ALA	B	293	-1.289	50.304	97.655	1.00	26.19	C
ATOM	5551	N	ALA	B	294	-3.674	49.230	95.890	1.00	26.21	N
ATOM	5552	CA	ALA	B	294	-4.573	49.391	94.750	1.00	26.81	C
ATOM	5553	C	ALA	B	294	-6.021	49.319	95.216	1.00	27.95	C
ATOM	5554	O	ALA	B	294	-6.860	50.104	94.772	1.00	28.94	O
ATOM	5555	CB	ALA	B	294	-4.304	48.316	93.701	1.00	23.10	C
ATOM	5556	N	ARG	B	295	-6.316	48.380	96.114	1.00	29.40	N
ATOM	5557	CA	ARG	B	295	-7.678	48.235	96.634	1.00	31.28	C
ATOM	5558	C	ARG	B	295	-8.107	49.534	97.317	1.00	29.50	C
ATOM	5559	O	ARG	B	295	-9.187	50.059	97.069	1.00	28.92	O



ATOM	5560	CB	ARG	B	295	-7.747	47.091	97.650	1.00	31.77	C
ATOM	5561	CG	ARG	B	295	-9.127	46.894	98.261	1.00	35.22	C
ATOM	5562	CD	ARG	B	295	-9.036	46.271	99.652	1.00	38.24	C
ATOM	5563	NE	ARG	B	295	-8.369	44.973	99.630	1.00	39.22	N
ATOM	5564	CZ	ARG	B	295	-8.860	43.897	99.026	1.00	41.94	C
ATOM	5565	NH1	ARG	B	295	-10.027	43.966	98.396	1.00	44.10	N
ATOM	5566	NH2	ARG	B	295	-8.184	42.755	99.045	1.00	40.96	N
ATOM	5567	N	GLN	B	296	-7.238	50.034	98.184	1.00	30.75	N
ATOM	5568	CA	GLN	B	296	-7.480	51.262	98.928	1.00	31.57	C
ATOM	5569	C	GLN	B	296	-7.846	52.408	97.985	1.00	30.52	C
ATOM	5570	O	GLN	B	296	-8.805	53.142	98.219	1.00	30.13	O
ATOM	5571	CB	GLN	B	296	-6.221	51.617	99.715	1.00	34.29	C
ATOM	5572	CG	GLN	B	296	-6.436	52.540	100.894	1.00	40.07	C
ATOM	5573	CD	GLN	B	296	-5.190	52.640	101.759	1.00	43.40	C
ATOM	5574	OE1	GLN	B	296	-4.515	51.637	102.017	1.00	43.55	O
ATOM	5575	NE2	GLN	B	296	-4.886	53.849	102.221	1.00	45.73	N
ATOM	5576	N	PHE	B	297	-7.070	52.551	96.918	1.00	28.75	N
ATOM	5577	CA	PHE	B	297	-7.291	53.603	95.931	1.00	27.15	C
ATOM	5578	C	PHE	B	297	-8.621	53.400	95.215	1.00	26.17	C
ATOM	5579	O	PHE	B	297	-9.440	54.315	95.130	1.00	25.04	O
ATOM	5580	CB	PHE	B	297	-6.141	53.599	94.913	1.00	27.96	C
ATOM	5581	CG	PHE	B	297	-6.283	54.622	93.822	1.00	27.09	C
ATOM	5582	CD1	PHE	B	297	-6.234	55.986	94.110	1.00	25.99	C
ATOM	5583	CD2	PHE	B	297	-6.461	54.222	92.502	1.00	25.74	C
ATOM	5584	CE1	PHE	B	297	-6.361	56.936	93.097	1.00	24.43	C
ATOM	5585	CE2	PHE	B	297	-6.589	55.166	91.479	1.00	25.30	C
ATOM	5586	CZ	PHE	B	297	-6.539	56.525	91.780	1.00	25.49	C
ATOM	5587	N	SER	B	298	-8.829	52.191	94.707	1.00	25.69	N
ATOM	5588	CA	SER	B	298	-10.047	51.862	93.982	1.00	27.61	C
ATOM	5589	C	SER	B	298	-11.320	52.068	94.786	1.00	28.06	C
ATOM	5590	O	SER	B	298	-12.273	52.677	94.303	1.00	26.40	O
ATOM	5591	CB	SER	B	298	-10.006	50.414	93.497	1.00	28.59	C
ATOM	5592	OG	SER	B	298	-11.196	50.106	92.789	1.00	30.35	O
ATOM	5593	N	GLU	B	299	-11.346	51.549	96.008	1.00	29.87	N
ATOM	5594	CA	GLU	B	299	-12.534	51.688	96.842	1.00	33.40	C
ATOM	5595	C	GLU	B	299	-12.848	53.143	97.173	1.00	32.82	C
ATOM	5596	O	GLU	B	299	-14.004	53.563	97.109	1.00	35.41	O
ATOM	5597	CB	GLU	B	299	-12.375	50.873	98.126	1.00	34.68	C
ATOM	5598	CG	GLU	B	299	-12.084	49.408	97.859	1.00	39.73	C
ATOM	5599	CD	GLU	B	299	-12.226	48.539	99.091	1.00	42.23	C
ATOM	5600	OE1	GLU	B	299	-11.648	48.893	100.143	1.00	43.65	O
ATOM	5601	OE2	GLU	B	299	-12.909	47.494	98.999	1.00	43.44	O
ATOM	5602	N	ALA	B	300	-11.820	53.913	97.515	1.00	31.93	N
ATOM	5603	CA	ALA	B	300	-11.999	55.322	97.852	1.00	31.88	C
ATOM	5604	C	ALA	B	300	-12.554	56.100	96.667	1.00	32.17	C
ATOM	5605	O	ALA	B	300	-13.425	56.953	96.830	1.00	32.64	O
ATOM	5606	CB	ALA	B	300	-10.675	55.927	98.296	1.00	30.16	C
ATOM	5607	N	VAL	B	301	-12.051	55.806	95.473	1.00	31.93	N
ATOM	5608	CA	VAL	B	301	-12.513	56.497	94.274	1.00	32.00	C
ATOM	5609	C	VAL	B	301	-13.924	56.077	93.884	1.00	31.98	C
ATOM	5610	O	VAL	B	301	-14.781	56.918	93.618	1.00	31.41	O
ATOM	5611	CB	VAL	B	301	-11.578	56.233	93.066	1.00	30.76	C
ATOM	5612	CG1	VAL	B	301	-12.171	56.849	91.799	1.00	29.67	C
ATOM	5613	CG2	VAL	B	301	-10.201	56.820	93.336	1.00	31.43	C
ATOM	5614	N	LYS	B	302	-14.161	54.772	93.839	1.00	32.91	N
ATOM	5615	CA	LYS	B	302	-15.470	54.261	93.464	1.00	34.73	C
ATOM	5616	C	LYS	B	302	-16.543	54.609	94.492	1.00	35.28	C
ATOM	5617	O	LYS	B	302	-17.732	54.558	94.190	1.00	35.08	O
ATOM	5618	CB	LYS	B	302	-15.402	52.749	93.250	1.00	34.91	C
ATOM	5619	CG	LYS	B	302	-14.716	52.340	91.951	1.00	35.78	C
ATOM	5620	CD	LYS	B	302	-14.718	50.825	91.787	1.00	35.65	C
ATOM	5621	CE	LYS	B	302	-14.236	50.403	90.405	1.00	36.98	C
ATOM	5622	NZ	LYS	B	302	-15.157	50.855	89.324	1.00	37.57	N
ATOM	5623	N	ALA	B	303	-16.117	54.974	95.698	1.00	36.03	N
ATOM	5624	CA	ALA	B	303	-17.048	55.343	96.759	1.00	37.66	C
ATOM	5625	C	ALA	B	303	-17.852	56.570	96.342	1.00	38.06	C
ATOM	5626	O	ALA	B	303	-18.953	56.798	96.840	1.00	38.73	O
ATOM	5627	CB	ALA	B	303	-16.287	55.630	98.052	1.00	37.40	C
ATOM	5628	N	GLU	B	304	-17.293	57.363	95.431	1.00	37.39	N
ATOM	5629	CA	GLU	B	304	-17.972	58.557	94.935	1.00	37.80	C
ATOM	5630	C	GLU	B	304	-18.312	58.427	93.454	1.00	36.74	C
ATOM	5631	O	GLU	B	304	-19.193	59.123	92.942	1.00	37.66	O
ATOM	5632	CB	GLU	B	304	-17.106	59.798	95.156	1.00	40.34	C
ATOM	5633	CG	GLU	B	304	-17.348	60.502	96.484	1.00	43.92	C
ATOM	5634	CD	GLU	B	304	-16.508	61.757	96.627	1.00	46.73	C
ATOM	5635	OE1	GLU	B	304	-16.493	62.569	95.679	1.00	47.83	O
ATOM	5636	OE2	GLU	B	304	-15.866	61.939	97.685	1.00	49.22	O
ATOM	5637	N	TYR	B	305	-17.612	57.528	92.771	1.00	35.51	N
ATOM	5638	CA	TYR	B	305	-17.827	57.290	91.347	1.00	34.51	C
ATOM	5639	C	TYR	B	305	-17.789	55.782	91.090	1.00	34.82	C



ATOM	5640	O	TYR	B	305	-16.808	55.245	90.578	1.00	34.60
ATOM	5641	CB	TYR	B	305	-16.745	58.012	90.545	1.00	32.33
ATOM	5642	CG	TYR	B	305	-16.813	59.520	90.675	1.00	31.22
ATOM	5643	CD1	TYR	B	305	-17.745	60.259	89.947	1.00	30.45
ATOM	5644	CD2	TYR	B	305	-15.954	60.207	91.534	1.00	29.06
ATOM	5645	CE1	TYR	B	305	-17.820	61.650	90.068	1.00	31.19
ATOM	5646	CE2	TYR	B	305	-16.021	61.601	91.665	1.00	30.52
ATOM	5647	CZ	TYR	B	305	-16.957	62.315	90.926	1.00	31.44
ATOM	5648	OH	TYR	B	305	-17.032	63.691	91.034	1.00	32.50
ATOM	5649	N	PRO	B	306	-18.875	55.081	91.451	1.00	35.43
ATOM	5650	CA	PRO	B	306	-19.037	53.633	91.300	1.00	35.56
ATOM	5651	C	PRO	B	306	-18.632	53.057	89.946	1.00	35.05
ATOM	5652	O	PRO	B	306	-18.011	51.994	89.882	1.00	36.02
ATOM	5653	CB	PRO	B	306	-20.522	53.424	91.587	1.00	34.70
ATOM	5654	CG	PRO	B	306	-20.820	54.497	92.573	1.00	33.67
ATOM	5655	CD	PRO	B	306	-20.115	55.685	91.973	1.00	35.31
ATOM	5656	N	ASP	B	307	-18.979	53.758	88.872	1.00	34.91
ATOM	5657	CA	ASP	B	307	-18.672	53.288	87.524	1.00	33.68
ATOM	5658	C	ASP	B	307	-17.328	53.754	86.964	1.00	32.33
ATOM	5659	O	ASP	B	307	-17.009	53.468	85.810	1.00	31.98
ATOM	5660	CB	ASP	B	307	-19.787	53.707	86.558	1.00	34.65
ATOM	5661	CG	ASP	B	307	-21.155	53.210	86.995	1.00	38.50
ATOM	5662	OD1	ASP	B	307	-21.248	52.056	87.464	1.00	40.53
ATOM	5663	OD2	ASP	B	307	-22.140	53.965	86.858	1.00	39.74
ATOM	5664	N	GLN	B	308	-16.542	54.469	87.764	1.00	29.81
ATOM	5665	CA	GLN	B	308	-15.250	54.955	87.288	1.00	28.16
ATOM	5666	C	GLN	B	308	-14.257	53.818	87.074	1.00	26.86
ATOM	5667	O	GLN	B	308	-13.876	53.120	88.014	1.00	26.10
ATOM	5668	CB	GLN	B	308	-14.657	55.963	88.269	1.00	27.50
ATOM	5669	CG	GLN	B	308	-13.328	56.545	87.811	1.00	27.96
ATOM	5670	CD	GLN	B	308	-13.437	57.297	86.492	1.00	28.23
ATOM	5671	OE1	GLN	B	308	-12.741	56.980	85.525	1.00	31.07
ATOM	5672	NE2	GLN	B	308	-14.307	58.298	86.448	1.00	24.92
ATOM	5673	N	MET	B	309	-13.838	53.635	85.828	1.00	27.25
ATOM	5674	CA	MET	B	309	-12.885	52.584	85.504	1.00	27.00
ATOM	5675	C	MET	B	309	-11.472	53.066	85.797	1.00	25.93
ATOM	5676	O	MET	B	309	-11.173	54.254	85.704	1.00	24.40
ATOM	5677	CB	MET	B	309	-13.014	52.176	84.039	1.00	28.78
ATOM	5678	CG	MET	B	309	-14.360	51.574	83.686	1.00	31.96
ATOM	5679	SD	MET	B	309	-14.341	50.880	82.020	1.00	38.01
ATOM	5680	CE	MET	B	309	-14.334	52.357	81.080	1.00	35.22
ATOM	5681	N	LEU	B	310	-10.604	52.132	86.151	1.00	25.27
ATOM	5682	CA	LEU	B	310	-9.233	52.470	86.490	1.00	24.80
ATOM	5683	C	LEU	B	310	-8.214	51.736	85.619	1.00	23.86
ATOM	5684	O	LEU	B	310	-8.525	50.732	84.981	1.00	22.47
ATOM	5685	CB	LEU	B	310	-8.986	52.144	87.966	1.00	23.52
ATOM	5686	CG	LEU	B	310	-10.032	52.668	88.958	1.00	24.44
ATOM	5687	CD1	LEU	B	310	-9.752	52.101	90.334	1.00	23.04
ATOM	5688	CD2	LEU	B	310	-10.024	54.188	88.990	1.00	22.59
ATOM	5689	N	ALA	B	311	-6.992	52.255	85.599	1.00	24.28
ATOM	5690	CA	ALA	B	311	-5.912	51.655	84.831	1.00	21.15
ATOM	5691	C	ALA	B	311	-4.756	51.439	85.796	1.00	21.11
ATOM	5692	O	ALA	B	311	-4.588	52.206	86.743	1.00	19.28
ATOM	5693	CB	ALA	B	311	-5.495	52.581	83.698	1.00	21.66
ATOM	5694	N	TYR	B	312	-3.959	50.398	85.559	1.00	21.61
ATOM	5695	CA	TYR	B	312	-2.839	50.101	86.438	1.00	19.96
ATOM	5696	C	TYR	B	312	-1.571	49.763	85.671	1.00	19.21
ATOM	5697	O	TYR	B	312	-1.581	48.955	84.746	1.00	20.71
ATOM	5698	CB	TYR	B	312	-3.206	48.953	87.392	1.00	19.39
ATOM	5699	CG	TYR	B	312	-2.197	48.744	88.507	1.00	18.39
ATOM	5700	CD1	TYR	B	312	-1.014	48.036	88.285	1.00	17.81
ATOM	5701	CD2	TYR	B	312	-2.409	49.289	89.776	1.00	19.25
ATOM	5702	CE1	TYR	B	312	-0.068	47.876	89.295	1.00	18.49
ATOM	5703	CE2	TYR	B	312	-1.463	49.138	90.800	1.00	17.14
ATOM	5704	CZ	TYR	B	312	-0.299	48.431	90.550	1.00	19.01
ATOM	5705	OH	TYR	B	312	0.635	48.269	91.546	1.00	19.19
ATOM	5706	N	ASN	B	313	-0.476	50.393	86.075	1.00	19.07
ATOM	5707	CA	ASN	B	313	0.819	50.190	85.445	1.00	18.85
ATOM	5708	C	ASN	B	313	1.615	49.088	86.136	1.00	19.17
ATOM	5709	O	ASN	B	313	2.115	49.270	87.244	1.00	19.47
ATOM	5710	CB	ASN	B	313	1.620	51.504	85.460	1.00	16.74
ATOM	5711	CG	ASN	B	313	3.084	51.316	85.055	1.00	19.41
ATOM	5712	OD1	ASN	B	313	3.454	50.316	84.427	1.00	16.95
ATOM	5713	ND2	ASN	B	313	3.918	52.290	85.403	1.00	18.43
ATOM	5714	N	CYS	B	314	1.706	47.939	85.479	1.00	18.56
ATOM	5715	CA	CYS	B	314	2.471	46.815	85.996	1.00	20.94
ATOM	5716	C	CYS	B	314	3.891	47.117	85.513	1.00	21.27
ATOM	5717	O	CYS	B	314	4.378	46.554	84.531	1.00	21.33
ATOM	5718	CB	CYS	B	314	1.939	45.509	85.404	1.00	20.25
ATOM	5719	SG	CYS	B	314	0.231	45.122	85.924	1.00	21.82

O  
C  
C  
C  
C  
C  
C  
O  
N  
C  
C  
O  
C  
C  
N  
C  
C  
O  
C  
O  
N  
N  
C  
C  
O  
C  
S  
C  
N  
C  
C  
O  
C  
C  
O  
N  
C  
O  
C  
O  
C  
S



ATOM	5720	N	SER	B	315	4.539	48.020	86.233	1.00	21.27	N
ATOM	5721	CA	SER	B	315	5.863	48.511	85.889	1.00	23.76	C
ATOM	5722	C	SER	B	315	7.095	47.642	86.056	1.00	23.96	C
ATOM	5723	O	SER	B	315	7.287	46.995	87.082	1.00	24.97	O
ATOM	5724	CB	SER	B	315	6.112	49.825	86.628	1.00	24.34	C
ATOM	5725	OG	SER	B	315	7.418	50.300	86.377	1.00	22.01	O
ATOM	5726	N	PRO	B	316	7.949	47.617	85.022	1.00	22.98	N
ATOM	5727	CA	PRO	B	316	9.188	46.839	85.058	1.00	22.94	C
ATOM	5728	C	PRO	B	316	10.162	47.586	85.974	1.00	23.68	C
ATOM	5729	O	PRO	B	316	11.265	47.116	86.244	1.00	24.58	O
ATOM	5730	CB	PRO	B	316	9.643	46.838	83.600	1.00	20.64	C
ATOM	5731	CG	PRO	B	316	8.356	46.894	82.858	1.00	21.82	C
ATOM	5732	CD	PRO	B	316	7.583	47.939	83.634	1.00	21.42	C
ATOM	5733	N	SER	B	317	9.742	48.765	86.429	1.00	24.73	N
ATOM	5734	CA	SER	B	317	10.548	49.574	87.336	1.00	25.42	C
ATOM	5735	C	SER	B	317	10.445	48.978	88.730	1.00	27.54	C
ATOM	5736	O	SER	B	317	11.050	49.477	89.679	1.00	29.34	O
ATOM	5737	CB	SER	B	317	10.061	51.024	87.367	1.00	24.83	C
ATOM	5738	OG	SER	B	317	10.537	51.752	86.251	1.00	23.52	O
ATOM	5739	N	PHE	B	318	9.649	47.923	88.853	1.00	27.64	N
ATOM	5740	CA	PHE	B	318	9.507	47.239	90.128	1.00	27.37	C
ATOM	5741	C	PHE	B	318	10.355	45.988	90.029	1.00	28.59	C
ATOM	5742	O	PHE	B	318	10.483	45.401	88.949	1.00	28.44	O
ATOM	5743	CB	PHE	B	318	8.065	46.790	90.390	1.00	25.72	C
ATOM	5744	CG	PHE	B	318	7.069	47.908	90.486	1.00	26.71	C
ATOM	5745	CD1	PHE	B	318	7.404	49.121	91.078	1.00	26.62	C
ATOM	5746	CD2	PHE	B	318	5.765	47.722	90.037	1.00	25.75	C
ATOM	5747	CE1	PHE	B	318	6.452	50.130	91.222	1.00	27.07	C
ATOM	5748	CE2	PHE	B	318	4.807	48.723	90.178	1.00	24.69	C
ATOM	5749	CZ	PHE	B	318	5.150	49.928	90.771	1.00	26.56	C
ATOM	5750	N	ASN	B	319	10.949	45.593	91.147	1.00	29.23	N
ATOM	5751	CA	ASN	B	319	11.723	44.364	91.195	1.00	29.23	C
ATOM	5752	C	ASN	B	319	10.665	43.418	91.733	1.00	29.02	C
ATOM	5753	O	ASN	B	319	10.532	43.236	92.941	1.00	30.38	O
ATOM	5754	CB	ASN	B	319	12.883	44.491	92.180	1.00	30.89	C
ATOM	5755	CG	ASN	B	319	13.751	43.250	92.220	1.00	31.11	C
ATOM	5756	OD1	ASN	B	319	14.923	43.312	92.602	1.00	34.04	O
ATOM	5757	ND2	ASN	B	319	13.181	42.113	91.835	1.00	29.66	N
ATOM	5758	N	TRP	B	320	9.902	42.836	90.820	1.00	28.34	N
ATOM	5759	CA	TRP	B	320	8.802	41.954	91.173	1.00	30.17	C
ATOM	5760	C	TRP	B	320	9.014	40.870	92.220	1.00	31.59	C
ATOM	5761	O	TRP	B	320	8.322	40.862	93.236	1.00	30.11	O
ATOM	5762	CB	TRP	B	320	8.200	41.348	89.898	1.00	28.71	C
ATOM	5763	CG	TRP	B	320	7.484	42.390	89.109	1.00	28.26	C
ATOM	5764	CD1	TRP	B	320	8.052	43.360	88.335	1.00	28.84	C
ATOM	5765	CD2	TRP	B	320	6.083	42.679	89.147	1.00	27.97	C
ATOM	5766	NE1	TRP	B	320	7.095	44.242	87.899	1.00	28.79	N
ATOM	5767	CE2	TRP	B	320	5.876	43.848	88.383	1.00	29.00	C
ATOM	5768	CE3	TRP	B	320	4.982	42.067	89.759	1.00	28.52	C
ATOM	5769	CZ2	TRP	B	320	4.611	44.420	88.213	1.00	26.90	C
ATOM	5770	CZ3	TRP	B	320	3.723	42.635	89.591	1.00	27.12	C
ATOM	5771	CH2	TRP	B	320	3.551	43.803	88.822	1.00	28.76	C
ATOM	5772	N	LYS	B	321	9.951	39.960	91.994	1.00	33.15	N
ATOM	5773	CA	LYS	B	321	10.153	38.892	92.960	1.00	35.17	C
ATOM	5774	C	LYS	B	321	10.702	39.375	94.293	1.00	36.74	C
ATOM	5775	O	LYS	B	321	10.760	38.613	95.257	1.00	36.95	O
ATOM	5776	CB	LYS	B	321	11.033	37.795	92.366	1.00	34.52	C
ATOM	5777	CG	LYS	B	321	10.296	36.971	91.316	1.00	36.54	C
ATOM	5778	CD	LYS	B	321	11.093	35.757	90.869	1.00	37.90	C
ATOM	5779	CE	LYS	B	321	11.298	34.777	92.010	1.00	39.27	C
ATOM	5780	NZ	LYS	B	321	10.008	34.279	92.561	1.00	41.02	N
ATOM	5781	N	LYS	B	322	11.089	40.645	94.356	1.00	37.52	N
ATOM	5782	CA	LYS	B	322	11.599	41.208	95.600	1.00	38.98	C
ATOM	5783	C	LYS	B	322	10.424	41.672	96.464	1.00	39.04	O
ATOM	5784	O	LYS	B	322	10.550	41.822	97.679	1.00	38.36	C
ATOM	5785	CB	LYS	B	322	12.521	42.395	95.315	1.00	41.69	C
ATOM	5786	CG	LYS	B	322	12.984	43.132	96.568	1.00	45.55	C
ATOM	5787	CD	LYS	B	322	13.861	44.335	96.231	1.00	47.80	C
ATOM	5788	CE	LYS	B	322	14.268	45.086	97.489	1.00	49.74	C
ATOM	5789	NZ	LYS	B	322	15.213	46.197	97.190	1.00	51.78	N
ATOM	5790	N	HIS	B	323	9.278	41.883	95.824	1.00	38.10	N
ATOM	5791	CA	HIS	B	323	8.084	42.346	96.519	1.00	39.01	C
ATOM	5792	C	HIS	B	323	6.989	41.299	96.664	1.00	37.72	C
ATOM	5793	O	HIS	B	323	6.246	41.307	97.645	1.00	38.10	O
ATOM	5794	CB	HIS	B	323	7.492	43.564	95.797	1.00	40.57	C
ATOM	5795	CG	HIS	B	323	8.326	44.799	95.909	1.00	43.20	C
ATOM	5796	ND1	HIS	B	323	8.531	45.452	97.106	1.00	44.54	N
ATOM	5797	CD2	HIS	B	323	9.019	45.495	94.978	1.00	44.48	C
ATOM	5798	CE1	HIS	B	323	9.315	46.497	96.907	1.00	45.91	C
ATOM	5799	NE2	HIS	B	323	9.626	46.545	95.624	1.00	45.70	N



ATOM	5800	N	LEU B 324	6.889	40.397	95.695	1.00	36.10	N
ATOM	5801	CA	LEU B 324	5.835	39.394	95.723	1.00	35.29	C
ATOM	5802	C	LEU B 324	6.324	37.974	95.511	1.00	35.94	C
ATOM	5803	O	LEU B 324	7.419	37.753	94.995	1.00	37.15	O
ATOM	5804	CB	LEU B 324	4.801	39.727	94.643	1.00	33.75	C
ATOM	5805	CG	LEU B 324	4.287	41.174	94.608	1.00	32.62	C
ATOM	5806	CD1	LEU B 324	3.479	41.406	93.338	1.00	29.65	C
ATOM	5807	CD2	LEU B 324	3.451	41.459	95.851	1.00	29.66	C
ATOM	5808	N	ASP B 325	5.505	37.012	95.923	1.00	36.11	N
ATOM	5809	CA	ASP B 325	5.831	35.607	95.725	1.00	36.48	C
ATOM	5810	C	ASP B 325	5.185	35.222	94.397	1.00	35.18	C
ATOM	5811	O	ASP B 325	4.355	35.966	93.872	1.00	35.68	O
ATOM	5812	CB	ASP B 325	5.288	34.733	96.872	1.00	38.06	C
ATOM	5813	CG	ASP B 325	3.814	34.966	97.153	1.00	39.12	C
ATOM	5814	OD1	ASP B 325	3.016	35.061	96.198	1.00	41.70	O
ATOM	5815	OD2	ASP B 325	3.448	35.040	98.343	1.00	42.89	O
ATOM	5816	N	ASP B 326	5.555	34.071	93.851	1.00	33.88	N
ATOM	5817	CA	ASP B 326	5.006	33.651	92.567	1.00	33.33	C
ATOM	5818	C	ASP B 326	3.488	33.540	92.546	1.00	32.87	C
ATOM	5819	O	ASP B 326	2.851	33.838	91.534	1.00	32.35	O
ATOM	5820	CB	ASP B 326	5.619	32.321	92.143	1.00	34.12	C
ATOM	5821	CG	ASP B 326	7.128	32.399	91.983	1.00	34.99	C
ATOM	5822	OD1	ASP B 326	7.647	33.473	91.598	1.00	33.00	O
ATOM	5823	OD2	ASP B 326	7.792	31.373	92.228	1.00	36.57	O
ATOM	5824	N	ALA B 327	2.914	33.113	93.666	1.00	31.21	N
ATOM	5825	CA	ALA B 327	1.472	32.952	93.778	1.00	29.52	C
ATOM	5826	C	ALA B 327	0.749	34.272	93.541	1.00	27.90	C
ATOM	5827	O	ALA B 327	-0.215	34.333	92.787	1.00	25.59	O
ATOM	5828	CB	ALA B 327	1.120	32.398	95.160	1.00	31.11	C
ATOM	5829	N	THR B 328	1.226	35.323	94.196	1.00	27.96	N
ATOM	5830	CA	THR B 328	0.631	36.644	94.063	1.00	29.39	C
ATOM	5831	C	THR B 328	0.890	37.197	92.664	1.00	29.50	C
ATOM	5832	O	THR B 328	-0.002	37.775	92.046	1.00	29.62	O
ATOM	5833	CB	THR B 328	1.202	37.601	95.117	1.00	30.35	C
ATOM	5834	OG1	THR B 328	1.020	37.025	96.414	1.00	30.34	O
ATOM	5835	CG2	THR B 328	0.492	38.948	95.067	1.00	31.93	C
ATOM	5836	N	ILE B 329	2.111	37.013	92.171	1.00	28.49	N
ATOM	5837	CA	ILE B 329	2.480	37.468	90.836	1.00	27.22	C
ATOM	5838	C	ILE B 329	1.517	36.881	89.798	1.00	28.21	C
ATOM	5839	O	ILE B 329	1.014	37.587	88.918	1.00	27.78	O
ATOM	5840	CB	ILE B 329	3.929	37.028	90.488	1.00	27.00	C
ATOM	5841	CG1	ILE B 329	4.927	37.866	91.286	1.00	27.51	C
ATOM	5842	CG2	ILE B 329	4.186	37.158	88.998	1.00	25.24	C
ATOM	5843	CD1	ILE B 329	6.368	37.431	91.104	1.00	28.75	C
ATOM	5844	N	ALA B 330	1.262	35.582	89.917	1.00	27.56	N
ATOM	5845	CA	ALA B 330	0.379	34.870	89.004	1.00	27.20	C
ATOM	5846	C	ALA B 330	-1.061	35.380	89.002	1.00	27.07	C
ATOM	5847	O	ALA B 330	-1.734	35.337	87.970	1.00	27.91	O
ATOM	5848	CB	ALA B 330	0.396	33.376	89.336	1.00	26.99	C
ATOM	5849	N	LYS B 331	-1.533	35.862	90.147	1.00	26.70	N
ATOM	5850	CA	LYS B 331	-2.907	36.354	90.250	1.00	27.43	C
ATOM	5851	C	LYS B 331	-3.011	37.875	90.218	1.00	25.60	C
ATOM	5852	O	LYS B 331	-4.114	38.425	90.205	1.00	24.58	O
ATOM	5853	CB	LYS B 331	-3.543	35.862	91.549	1.00	28.48	C
ATOM	5854	CG	LYS B 331	-3.040	36.595	92.791	1.00	29.38	C
ATOM	5855	CD	LYS B 331	-3.737	36.097	94.044	1.00	31.73	C
ATOM	5856	CE	LYS B 331	-3.285	36.849	95.288	1.00	30.98	C
ATOM	5857	NZ	LYS B 331	-3.937	36.326	96.525	1.00	29.13	N
ATOM	5858	N	PHE B 332	-1.864	38.546	90.200	1.00	25.03	N
ATOM	5859	CA	PHE B 332	-1.826	40.004	90.222	1.00	25.90	C
ATOM	5860	C	PHE B 332	-2.851	40.700	89.327	1.00	26.42	C
ATOM	5861	O	PHE B 332	-3.737	41.398	89.830	1.00	26.92	O
ATOM	5862	CB	PHE B 332	-0.423	40.506	89.876	1.00	26.44	C
ATOM	5863	CG	PHE B 332	-0.167	41.917	90.317	1.00	27.99	C
ATOM	5864	CD1	PHE B 332	-0.033	42.219	91.668	1.00	27.10	C
ATOM	5865	CD2	PHE B 332	-0.078	42.951	89.387	1.00	27.77	C
ATOM	5866	CE1	PHE B 332	0.186	43.531	92.087	1.00	28.10	C
ATOM	5867	CE2	PHE B 332	0.142	44.265	89.800	1.00	27.52	C
ATOM	5868	CZ	PHE B 332	0.273	44.552	91.153	1.00	27.33	C
ATOM	5869	N	GLN B 333	-2.748	40.514	88.012	1.00	25.68	N
ATOM	5870	CA	GLN B 333	-3.686	41.171	87.097	1.00	25.63	C
ATOM	5871	C	GLN B 333	-5.151	40.783	87.319	1.00	26.31	C
ATOM	5872	O	GLN B 333	-6.039	41.643	87.289	1.00	24.97	O
ATOM	5873	CB	GLN B 333	-3.307	40.907	85.635	1.00	22.25	C
ATOM	5874	CG	GLN B 333	-1.942	41.449	85.218	1.00	22.36	C
ATOM	5875	CD	GLN B 333	-1.917	41.933	83.772	1.00	22.42	C
ATOM	5876	OE1	GLN B 333	-2.572	41.360	82.902	1.00	23.22	O
ATOM	5877	NE2	GLN B 333	-1.148	42.987	83.512	1.00	20.96	N
ATOM	5878	N	LYS B 334	-5.407	39.497	87.543	1.00	27.47	N
ATOM	5879	CA	LYS B 334	-6.776	39.042	87.757	1.00	29.07	C



ATOM	5880	C	LYS	B	334	-7.410	39.746	88.957	1.00	28.82	C
ATOM	5881	O	LYS	B	334	-8.585	40.118	88.915	1.00	28.62	O
ATOM	5882	CB	LYS	B	334	-6.817	37.523	87.952	1.00	30.76	C
ATOM	5883	CG	LYS	B	334	-8.235	36.969	88.027	1.00	34.67	C
ATOM	5884	CD	LYS	B	334	-8.258	35.447	88.071	1.00	38.24	C
ATOM	5885	CE	LYS	B	334	-9.675	34.932	88.293	1.00	38.92	C
ATOM	5886	NZ	LYS	B	334	-10.605	35.475	87.262	1.00	40.37	N
ATOM	5887	N	GLU	B	335	-6.632	39.928	90.021	1.00	28.29	N
ATOM	5888	CA	GLU	B	335	-7.117	40.608	91.221	1.00	28.56	C
ATOM	5889	C	GLU	B	335	-7.391	42.090	90.938	1.00	28.27	C
ATOM	5890	O	GLU	B	335	-8.390	42.647	91.393	1.00	28.78	O
ATOM	5891	CB	GLU	B	335	-6.095	40.480	92.355	1.00	29.78	C
ATOM	5892	CG	GLU	B	335	-5.994	39.082	92.934	1.00	33.33	C
ATOM	5893	CD	GLU	B	335	-7.298	38.633	93.573	1.00	36.40	C
ATOM	5894	OE1	GLU	B	335	-7.698	39.222	94.603	1.00	38.31	O
ATOM	5895	OE2	GLU	B	335	-7.930	37.697	93.041	1.00	35.82	O
ATOM	5896	N	LEU	B	336	-6.497	42.729	90.189	1.00	27.32	N
ATOM	5897	CA	LEU	B	336	-6.670	44.133	89.852	1.00	26.29	C
ATOM	5898	C	LEU	B	336	-7.962	44.305	89.065	1.00	25.76	C
ATOM	5899	O	LEU	B	336	-8.719	45.249	89.292	1.00	26.52	O
ATOM	5900	CB	LEU	B	336	-5.480	44.635	89.028	1.00	25.05	C
ATOM	5901	CG	LEU	B	336	-4.200	44.896	89.821	1.00	24.42	C
ATOM	5902	CD1	LEU	B	336	-3.069	45.274	88.879	1.00	23.12	C
ATOM	5903	CD2	LEU	B	336	-4.453	46.008	90.821	1.00	24.88	C
ATOM	5904	N	ALA	B	337	-8.213	43.379	88.146	1.00	25.18	N
ATOM	5905	CA	ALA	B	337	-9.420	43.433	87.328	1.00	26.79	C
ATOM	5906	C	ALA	B	337	-10.634	43.339	88.238	1.00	26.74	C
ATOM	5907	O	ALA	B	337	-11.625	44.038	88.043	1.00	25.29	O
ATOM	5908	CB	ALA	B	337	-9.431	42.288	86.323	1.00	23.44	C
ATOM	5909	N	ALA	B	338	-10.539	42.476	89.243	1.00	27.78	N
ATOM	5910	CA	ALA	B	338	-11.633	42.293	90.180	1.00	28.64	C
ATOM	5911	C	ALA	B	338	-11.900	43.559	90.981	1.00	29.22	C
ATOM	5912	O	ALA	B	338	-12.972	43.703	91.567	1.00	29.88	O
ATOM	5913	CB	ALA	B	338	-11.330	41.134	91.119	1.00	28.82	C
ATOM	5914	N	MET	B	339	-10.936	44.479	91.006	1.00	29.56	N
ATOM	5915	CA	MET	B	339	-11.109	45.722	91.752	1.00	28.30	C
ATOM	5916	C	MET	B	339	-11.334	46.957	90.868	1.00	28.66	C
ATOM	5917	O	MET	B	339	-11.126	48.088	91.305	1.00	29.43	O
ATOM	5918	CB	MET	B	339	-9.918	45.932	92.707	1.00	29.09	C
ATOM	5919	CG	MET	B	339	-9.760	44.789	93.729	1.00	27.90	C
ATOM	5920	SD	MET	B	339	-8.442	44.944	94.980	1.00	26.39	S
ATOM	5921	CE	MET	B	339	-6.963	44.893	93.943	1.00	26.40	C
ATOM	5922	N	GLY	B	340	-11.756	46.745	89.624	1.00	27.15	N
ATOM	5923	CA	GLY	B	340	-12.031	47.875	88.746	1.00	27.48	C
ATOM	5924	C	GLY	B	340	-10.932	48.380	87.822	1.00	26.74	C
ATOM	5925	O	GLY	B	340	-11.151	49.320	87.063	1.00	25.19	O
ATOM	5926	N	PHE	B	341	-9.751	47.775	87.883	1.00	26.76	N
ATOM	5927	CA	PHE	B	341	-8.641	48.181	87.020	1.00	26.45	C
ATOM	5928	C	PHE	B	341	-8.807	47.449	85.692	1.00	25.69	C
ATOM	5929	O	PHE	B	341	-8.268	46.359	85.501	1.00	26.29	O
ATOM	5930	CB	PHE	B	341	-7.312	47.814	87.681	1.00	26.04	C
ATOM	5931	CG	PHE	B	341	-7.028	48.593	88.931	1.00	27.04	C
ATOM	5932	CD1	PHE	B	341	-6.533	49.894	88.859	1.00	27.43	C
ATOM	5933	CD2	PHE	B	341	-7.282	48.041	90.185	1.00	28.72	C
ATOM	5934	CE1	PHE	B	341	-6.292	50.636	90.014	1.00	28.02	C
ATOM	5935	CE2	PHE	B	341	-7.046	48.776	91.354	1.00	27.81	C
ATOM	5936	CZ	PHE	B	341	-6.550	50.076	91.267	1.00	28.03	C
ATOM	5937	N	LYS	B	342	-9.554	48.062	84.780	1.00	25.45	N
ATOM	5938	CA	LYS	B	342	-9.848	47.460	83.484	1.00	26.33	C
ATOM	5939	C	LYS	B	342	-8.792	47.592	82.391	1.00	24.88	C
ATOM	5940	O	LYS	B	342	-8.885	46.925	81.363	1.00	23.48	O
ATOM	5941	CB	LYS	B	342	-11.196	47.979	82.975	1.00	28.84	C
ATOM	5942	CG	LYS	B	342	-12.359	47.629	83.892	1.00	29.38	C
ATOM	5943	CD	LYS	B	342	-12.423	46.130	84.130	1.00	31.96	C
ATOM	5944	CE	LYS	B	342	-13.564	45.752	85.060	1.00	33.32	C
ATOM	5945	NZ	LYS	B	342	-13.507	44.305	85.412	1.00	35.68	N
ATOM	5946	N	PHE	B	343	-7.803	48.457	82.587	1.00	22.90	N
ATOM	5947	CA	PHE	B	343	-6.736	48.575	81.599	1.00	21.37	C
ATOM	5948	C	PHE	B	343	-5.405	48.423	82.312	1.00	21.26	C
ATOM	5949	O	PHE	B	343	-5.010	49.278	83.101	1.00	20.49	O
ATOM	5950	CB	PHE	B	343	-6.761	49.914	80.852	1.00	18.71	C
ATOM	5951	CG	PHE	B	343	-5.770	49.973	79.720	1.00	18.91	C
ATOM	5952	CD1	PHE	B	343	-5.897	49.118	78.626	1.00	18.11	C
ATOM	5953	CD2	PHE	B	343	-4.671	50.826	79.774	1.00	19.77	C
ATOM	5954	CE1	PHE	B	343	-4.946	49.105	77.607	1.00	17.89	C
ATOM	5955	CE2	PHE	B	343	-3.714	50.822	78.758	1.00	18.70	C
ATOM	5956	CZ	PHE	B	343	-3.853	49.958	77.674	1.00	18.81	C
ATOM	5957	N	GLN	B	344	-4.719	47.322	82.033	1.00	20.73	N
ATOM	5958	CA	GLN	B	344	-3.440	47.042	82.664	1.00	20.63	C
ATOM	5959	C	GLN	B	344	-2.367	46.886	81.596	1.00	18.72	C



ATOM	5960	O	GLN	B	344	-2.602	46.295	80.545	1.00	18.09
ATOM	5961	CB	GLN	B	344	-3.568	45.780	83.517	1.00	21.46
ATOM	5962	CG	GLN	B	344	-4.795	45.833	84.426	1.00	23.46
ATOM	5963	CD	GLN	B	344	-4.922	44.624	85.331	1.00	24.28
ATOM	5964	OE1	GLN	B	344	-5.997	44.350	85.865	1.00	26.60
ATOM	5965	NE2	GLN	B	344	-3.825	43.902	85.516	1.00	23.17
ATOM	5966	N	PHE	B	345	-1.180	47.402	81.876	1.00	16.96
ATOM	5967	CA	PHE	B	345	-0.115	47.358	80.891	1.00	17.02
ATOM	5968	C	PHE	B	345	1.284	47.325	81.478	1.00	16.11
ATOM	5969	O	PHE	B	345	1.526	47.863	82.552	1.00	16.09
ATOM	5970	CB	PHE	B	345	-0.238	48.586	79.988	1.00	16.10
ATOM	5971	CG	PHE	B	345	-0.367	49.876	80.748	1.00	16.63
ATOM	5972	CD1	PHE	B	345	-1.564	50.211	81.376	1.00	15.78
ATOM	5973	CD2	PHE	B	345	0.721	50.734	80.878	1.00	17.27
ATOM	5974	CE1	PHE	B	345	-1.680	51.372	82.123	1.00	17.46
ATOM	5975	CE2	PHE	B	345	0.620	51.905	81.626	1.00	18.01
ATOM	5976	CZ	PHE	B	345	-0.588	52.226	82.254	1.00	18.13
ATOM	5977	N	ILE	B	346	2.203	46.682	80.765	1.00	15.81
ATOM	5978	CA	ILE	B	346	3.595	46.641	81.192	1.00	15.89
ATOM	5979	C	ILE	B	346	4.307	47.661	80.296	1.00	16.78
ATOM	5980	O	ILE	B	346	4.664	47.368	79.160	1.00	17.12
ATOM	5981	CB	ILE	B	346	4.213	45.250	80.993	1.00	16.55
ATOM	5982	CG1	ILE	B	346	3.462	44.216	81.843	1.00	15.08
ATOM	5983	CG2	ILE	B	346	5.694	45.282	81.385	1.00	16.17
ATOM	5984	CD1	ILE	B	346	4.014	42.810	81.726	1.00	15.32
ATOM	5985	N	THR	B	347	4.480	48.868	80.821	1.00	17.03
ATOM	5986	CA	THR	B	347	5.099	49.979	80.101	1.00	17.67
ATOM	5987	C	THR	B	347	6.364	49.696	79.290	1.00	16.91
ATOM	5988	O	THR	B	347	6.405	49.950	78.091	1.00	15.99
ATOM	5989	CB	THR	B	347	5.425	51.142	81.073	1.00	17.00
ATOM	5990	OG1	THR	B	347	6.157	50.628	82.192	1.00	17.87
ATOM	5991	CG2	THR	B	347	4.152	51.807	81.572	1.00	16.00
ATOM	5992	N	LEU	B	348	7.386	49.155	79.941	1.00	16.86
ATOM	5993	CA	LEU	B	348	8.656	48.917	79.280	1.00	17.60
ATOM	5994	C	LEU	B	348	8.922	47.508	78.771	1.00	18.36
ATOM	5995	O	LEU	B	348	10.079	47.116	78.609	1.00	16.65
ATOM	5996	CB	LEU	B	348	9.780	49.347	80.222	1.00	18.85
ATOM	5997	CG	LEU	B	348	9.486	50.663	80.956	1.00	21.12
ATOM	5998	CD1	LEU	B	348	10.716	51.110	81.754	1.00	22.19
ATOM	5999	CD2	LEU	B	348	9.080	51.728	79.938	1.00	20.89
ATOM	6000	N	ALA	B	349	7.863	46.751	78.502	1.00	16.99
ATOM	6001	CA	ALA	B	349	8.027	45.381	78.011	1.00	19.03
ATOM	6002	C	ALA	B	349	8.912	45.325	76.765	1.00	17.08
ATOM	6003	O	ALA	B	349	9.796	44.480	76.662	1.00	17.45
ATOM	6004	CB	ALA	B	349	6.655	44.760	77.704	1.00	19.36
ATOM	6005	N	GLY	B	350	8.664	46.231	75.824	1.00	16.61
ATOM	6006	CA	GLY	B	350	9.431	46.262	74.589	1.00	14.56
ATOM	6007	C	GLY	B	350	10.900	46.572	74.804	1.00	15.39
ATOM	6008	O	GLY	B	350	11.760	45.853	74.296	1.00	15.24
ATOM	6009	N	PHE	B	351	11.191	47.640	75.543	1.00	14.15
ATOM	6010	CA	PHE	B	351	12.575	48.016	75.830	1.00	16.46
ATOM	6011	C	PHE	B	351	13.340	46.812	76.383	1.00	17.45
ATOM	6012	O	PHE	B	351	14.459	46.518	75.951	1.00	16.85
ATOM	6013	CB	PHE	B	351	12.633	49.146	76.863	1.00	15.38
ATOM	6014	CG	PHE	B	351	14.028	49.423	77.382	1.00	16.41
ATOM	6015	CD1	PHE	B	351	14.852	50.355	76.754	1.00	14.33
ATOM	6016	CD2	PHE	B	351	14.526	48.726	78.489	1.00	17.26
ATOM	6017	CE1	PHE	B	351	16.151	50.589	77.220	1.00	14.26
ATOM	6018	CE2	PHE	B	351	15.827	48.951	78.963	1.00	14.95
ATOM	6019	CZ	PHE	B	351	16.639	49.885	78.326	1.00	14.49
ATOM	6020	N	HIS	B	352	12.733	46.122	77.344	1.00	15.99
ATOM	6021	CA	HIS	B	352	13.376	44.964	77.949	1.00	18.66
ATOM	6022	C	HIS	B	352	13.492	43.744	77.047	1.00	18.27
ATOM	6023	O	HIS	B	352	14.531	43.083	77.042	1.00	19.76
ATOM	6024	CB	HIS	B	352	12.669	44.595	79.251	1.00	16.77
ATOM	6025	CG	HIS	B	352	12.975	45.539	80.368	1.00	18.14
ATOM	6026	ND1	HIS	B	352	14.216	45.599	80.967	1.00	17.31
ATOM	6027	CD2	HIS	B	352	12.233	46.519	80.939	1.00	16.96
ATOM	6028	CE1	HIS	B	352	14.226	46.577	81.856	1.00	19.39
ATOM	6029	NE2	HIS	B	352	13.036	47.151	81.858	1.00	17.43
ATOM	6030	N	ALA	B	353	12.445	43.449	76.283	1.00	17.52
ATOM	6031	CA	ALA	B	353	12.467	42.298	75.389	1.00	15.53
ATOM	6032	C	ALA	B	353	13.505	42.517	74.290	1.00	17.31
ATOM	6033	O	ALA	B	353	14.215	41.584	73.895	1.00	17.25
ATOM	6034	CB	ALA	B	353	11.090	42.089	74.775	1.00	15.61
ATOM	6035	N	LEU	B	354	13.587	43.759	73.811	1.00	15.53
ATOM	6036	CA	LEU	B	354	14.519	44.132	72.754	1.00	16.32
ATOM	6037	C	LEU	B	354	15.969	44.139	73.228	1.00	16.03
ATOM	6038	O	LEU	B	354	16.841	43.574	72.574	1.00	15.47
ATOM	6039	CB	LEU	B	354	14.152	45.515	72.184	1.00	14.28

O  
C  
C  
C  
O  
N  
N  
C  
C  
O  
C  
C  
C  
C  
C  
C  
N  
C  
C  
O  
C  
C  
C  
O  
C  
C  
N  
C  
C  
O  
C  
C  
N  
C  
C  
O  
C  
C  
N  
C  
C  
O  
C  
C  
N  
C  
C  
O  
C



ATOM	6040	CG	LEU	B	354	15.023	46.042	71.035	1.00	14.82	C
ATOM	6041	CD1	LEU	B	354	14.235	47.051	70.221	1.00	10.47	C
ATOM	6042	CD2	LEU	B	354	16.311	46.662	71.586	1.00	12.88	C
ATOM	6043	N	ASN	B	355	16.230	44.784	74.360	1.00	16.57	N
ATOM	6044	CA	ASN	B	355	17.589	44.842	74.883	1.00	18.05	C
ATOM	6045	C	ASN	B	355	18.097	43.471	75.350	1.00	17.75	C
ATOM	6046	O	ASN	B	355	19.233	43.098	75.064	1.00	17.36	O
ATOM	6047	CB	ASN	B	355	17.674	45.872	76.019	1.00	16.95	C
ATOM	6048	CG	ASN	B	355	17.753	47.308	75.500	1.00	19.03	C
ATOM	6049	OD1	ASN	B	355	18.832	47.800	75.163	1.00	19.41	O
ATOM	6050	ND2	ASN	B	355	16.608	47.976	75.418	1.00	13.71	N
ATOM	6051	N	TYR	B	356	17.259	42.707	76.041	1.00	17.21	N
ATOM	6052	CA	TYR	B	356	17.692	41.396	76.513	1.00	17.94	C
ATOM	6053	C	TYR	B	356	17.972	40.413	75.381	1.00	19.66	C
ATOM	6054	O	TYR	B	356	19.056	39.830	75.299	1.00	20.06	O
ATOM	6055	CB	TYR	B	356	16.658	40.769	77.448	1.00	18.52	C
ATOM	6056	CG	TYR	B	356	17.099	39.396	77.892	1.00	22.60	C
ATOM	6057	CD1	TYR	B	356	18.172	39.244	78.770	1.00	22.00	C
ATOM	6058	CD2	TYR	B	356	16.541	38.248	77.331	1.00	22.89	C
ATOM	6059	CE1	TYR	B	356	18.688	37.992	79.070	1.00	23.48	C
ATOM	6060	CE2	TYR	B	356	17.053	36.985	77.625	1.00	25.83	C
ATOM	6061	CZ	TYR	B	356	18.130	36.868	78.496	1.00	22.96	C
ATOM	6062	OH	TYR	B	356	18.649	35.629	78.788	1.00	24.89	O
ATOM	6063	N	SER	B	357	16.987	40.232	74.508	1.00	19.44	N
ATOM	6064	CA	SER	B	357	17.113	39.306	73.394	1.00	18.17	C
ATOM	6065	C	SER	B	357	18.325	39.601	72.516	1.00	20.02	C
ATOM	6066	O	SER	B	357	18.963	38.677	72.009	1.00	18.90	O
ATOM	6067	CB	SER	B	357	15.834	39.330	72.548	1.00	18.80	C
ATOM	6068	OG	SER	B	357	15.649	40.592	71.939	1.00	19.01	O
ATOM	6069	N	MET	B	358	18.643	40.879	72.316	1.00	19.67	N
ATOM	6070	CA	MET	B	358	19.801	41.210	71.495	1.00	19.27	C
ATOM	6071	C	MET	B	358	21.089	41.024	72.289	1.00	20.11	C
ATOM	6072	O	MET	B	358	22.115	40.655	71.724	1.00	20.70	O
ATOM	6073	CB	MET	B	358	19.730	42.644	70.967	1.00	19.60	C
ATOM	6074	CG	MET	B	358	20.880	42.981	70.022	1.00	16.38	C
ATOM	6075	SD	MET	B	358	21.115	41.733	68.720	1.00	21.15	S
ATOM	6076	CE	MET	B	358	19.587	41.922	67.775	1.00	16.47	C
ATOM	6077	N	PHE	B	359	21.050	41.286	73.593	1.00	20.53	N
ATOM	6078	CA	PHE	B	359	22.255	41.089	74.389	1.00	21.91	C
ATOM	6079	C	PHE	B	359	22.560	39.602	74.368	1.00	23.13	C
ATOM	6080	O	PHE	B	359	23.692	39.182	74.087	1.00	23.99	O
ATOM	6081	CB	PHE	B	359	22.080	41.511	75.851	1.00	19.89	C
ATOM	6082	CG	PHE	B	359	23.288	41.206	76.695	1.00	20.48	C
ATOM	6083	CD1	PHE	B	359	24.417	42.017	76.641	1.00	21.15	C
ATOM	6084	CD2	PHE	B	359	23.345	40.042	77.450	1.00	21.45	C
ATOM	6085	CE1	PHE	B	359	25.588	41.665	77.322	1.00	19.91	C
ATOM	6086	CE2	PHE	B	359	24.512	39.684	78.133	1.00	21.68	C
ATOM	6087	CZ	PHE	B	359	25.632	40.498	78.065	1.00	20.58	C
ATOM	6088	N	ASP	B	360	21.532	38.814	74.664	1.00	22.65	N
ATOM	6089	CA	ASP	B	360	21.657	37.366	74.703	1.00	24.10	C
ATOM	6090	C	ASP	B	360	22.189	36.786	73.396	1.00	24.31	C
ATOM	6091	O	ASP	B	360	23.085	35.937	73.409	1.00	25.08	O
ATOM	6092	CB	ASP	B	360	20.307	36.731	75.033	1.00	24.54	C
ATOM	6093	CG	ASP	B	360	20.412	35.232	75.269	1.00	27.14	C
ATOM	6094	OD1	ASP	B	360	21.134	34.818	76.201	1.00	26.41	O
ATOM	6095	OD2	ASP	B	360	19.770	34.467	74.522	1.00	29.60	O
ATOM	6096	N	LEU	B	361	21.643	37.244	72.272	1.00	22.84	N
ATOM	6097	CA	LEU	B	361	22.078	36.756	70.969	1.00	20.64	C
ATOM	6098	C	LEU	B	361	23.504	37.175	70.670	1.00	20.29	C
ATOM	6099	O	LEU	B	361	24.331	36.353	70.290	1.00	21.85	O
ATOM	6100	CB	LEU	B	361	21.162	37.279	69.860	1.00	20.67	C
ATOM	6101	CG	LEU	B	361	21.539	36.870	68.431	1.00	20.11	C
ATOM	6102	CD1	LEU	B	361	21.478	35.351	68.305	1.00	18.82	C
ATOM	6103	CD2	LEU	B	361	20.592	37.529	67.431	1.00	20.51	C
ATOM	6104	N	ALA	B	362	23.786	38.461	70.843	1.00	20.62	N
ATOM	6105	CA	ALA	B	362	25.113	38.995	70.574	1.00	20.82	C
ATOM	6106	C	ALA	B	362	26.169	38.303	71.422	1.00	21.97	C
ATOM	6107	O	ALA	B	362	27.250	37.972	70.937	1.00	21.95	O
ATOM	6108	CB	ALA	B	362	25.132	40.496	70.831	1.00	19.26	C
ATOM	6109	N	TYR	B	363	25.854	38.081	72.691	1.00	23.62	N
ATOM	6110	CA	TYR	B	363	26.798	37.429	73.591	1.00	23.83	C
ATOM	6111	C	TYR	B	363	27.132	36.042	73.060	1.00	23.10	C
ATOM	6112	O	TYR	B	363	28.298	35.698	72.884	1.00	23.97	O
ATOM	6113	CB	TYR	B	363	26.206	37.299	74.996	1.00	24.70	C
ATOM	6114	CG	TYR	B	363	27.188	36.761	76.012	1.00	27.12	C
ATOM	6115	CD1	TYR	B	363	28.105	37.606	76.639	1.00	26.05	C
ATOM	6116	CD2	TYR	B	363	27.215	35.405	76.329	1.00	25.96	C
ATOM	6117	CE1	TYR	B	363	29.020	37.113	77.557	1.00	27.55	C
ATOM	6118	CE2	TYR	B	363	28.127	34.903	77.243	1.00	27.73	C
ATOM	6119	CZ	TYR	B	363	29.025	35.761	77.856	1.00	29.21	C



ATOM	6120	OH	TYR	B	363	29.912	35.267	78.789	1.00	31.20	O
ATOM	6121	N	GLY	B	364	26.099	35.253	72.799	1.00	21.75	N
ATOM	6122	CA	GLY	B	364	26.307	33.910	72.298	1.00	21.96	C
ATOM	6123	C	GLY	B	364	27.028	33.896	70.968	1.00	23.52	C
ATOM	6124	O	GLY	B	364	27.827	33.003	70.690	1.00	23.32	O
ATOM	6125	N	TYR	B	365	26.729	34.894	70.145	1.00	23.76	N
ATOM	6126	CA	TYR	B	365	27.321	35.040	68.826	1.00	24.01	C
ATOM	6127	C	TYR	B	365	28.812	35.342	68.959	1.00	24.93	C
ATOM	6128	O	TYR	B	365	29.632	34.864	68.171	1.00	24.60	O
ATOM	6129	CB	TYR	B	365	26.606	36.179	68.089	1.00	24.78	C
ATOM	6130	CG	TYR	B	365	27.087	36.466	66.683	1.00	23.54	C
ATOM	6131	CD1	TYR	B	365	26.999	35.503	65.680	1.00	23.30	C
ATOM	6132	CD2	TYR	B	365	27.570	37.730	66.341	1.00	24.01	C
ATOM	6133	CE1	TYR	B	365	27.374	35.797	64.366	1.00	22.95	C
ATOM	6134	CE2	TYR	B	365	27.941	38.033	65.036	1.00	23.29	C
ATOM	6135	CZ	TYR	B	365	27.837	37.065	64.055	1.00	22.50	O
ATOM	6136	OH	TYR	B	365	28.156	37.387	62.761	1.00	23.94	O
ATOM	6137	N	ALA	B	366	29.159	36.141	69.962	1.00	25.46	N
ATOM	6138	CA	ALA	B	366	30.550	36.495	70.188	1.00	26.96	C
ATOM	6139	C	ALA	B	366	31.362	35.246	70.517	1.00	27.70	C
ATOM	6140	O	ALA	B	366	32.500	35.109	70.075	1.00	27.19	O
ATOM	6141	CB	ALA	B	366	30.661	37.504	71.325	1.00	24.31	C
ATOM	6142	N	GLN	B	367	30.765	34.330	71.276	1.00	28.43	N
ATOM	6143	CA	GLN	B	367	31.458	33.110	71.681	1.00	30.19	C
ATOM	6144	C	GLN	B	367	31.354	31.931	70.704	1.00	29.49	C
ATOM	6145	O	GLN	B	367	32.341	31.227	70.486	1.00	29.65	O
ATOM	6146	CB	GLN	B	367	30.953	32.634	73.053	1.00	32.93	C
ATOM	6147	CG	GLN	B	367	30.457	33.719	74.017	1.00	39.68	C
ATOM	6148	CD	GLN	B	367	31.554	34.640	74.526	1.00	44.51	C
ATOM	6149	OE1	GLN	B	367	32.628	34.184	74.930	1.00	46.73	O
ATOM	6150	NE2	GLN	B	367	31.279	35.947	74.531	1.00	43.43	N
ATOM	6151	N	ASN	B	368	30.172	31.716	70.123	1.00	27.46	N
ATOM	6152	CA	ASN	B	368	29.951	30.582	69.218	1.00	26.43	C
ATOM	6153	C	ASN	B	368	29.477	30.911	67.804	1.00	25.04	C
ATOM	6154	O	ASN	B	368	29.005	30.030	67.084	1.00	23.72	O
ATOM	6155	CB	ASN	B	368	28.942	29.626	69.850	1.00	27.82	C
ATOM	6156	CG	ASN	B	368	29.373	29.147	71.218	1.00	31.39	C
ATOM	6157	OD1	ASN	B	368	28.538	28.870	72.078	1.00	33.38	O
ATOM	6158	ND2	ASN	B	368	30.681	29.035	71.426	1.00	30.74	N
ATOM	6159	N	GLN	B	369	29.596	32.171	67.412	1.00	24.47	N
ATOM	6160	CA	GLN	B	369	29.178	32.602	66.090	1.00	22.82	C
ATOM	6161	C	GLN	B	369	27.840	32.003	65.645	1.00	21.95	C
ATOM	6162	O	GLN	B	369	26.850	32.101	66.361	1.00	21.92	O
ATOM	6163	CB	GLN	B	369	30.274	32.293	65.067	1.00	24.34	C
ATOM	6164	CG	GLN	B	369	31.574	33.042	65.316	1.00	25.55	C
ATOM	6165	CD	GLN	B	369	32.489	32.329	66.300	1.00	26.88	C
ATOM	6166	OE1	GLN	B	369	32.941	32.914	67.288	1.00	27.44	O
ATOM	6167	NE2	GLN	B	369	32.775	31.062	66.025	1.00	23.82	N
ATOM	6168	N	MET	B	370	27.806	31.373	64.474	1.00	21.63	N
ATOM	6169	CA	MET	B	370	26.554	30.818	63.955	1.00	22.32	C
ATOM	6170	C	MET	B	370	25.724	29.918	64.866	1.00	22.05	C
ATOM	6171	O	MET	B	370	24.497	29.914	64.763	1.00	22.64	O
ATOM	6172	CB	MET	B	370	26.800	30.091	62.632	1.00	19.93	C
ATOM	6173	CG	MET	B	370	27.248	31.003	61.502	1.00	20.73	C
ATOM	6174	SD	MET	B	370	26.329	32.558	61.426	1.00	23.20	S
ATOM	6175	CE	MET	B	370	24.696	31.980	61.122	1.00	19.63	C
ATOM	6176	N	SER	B	371	26.368	29.160	65.752	1.00	22.45	N
ATOM	6177	CA	SER	B	371	25.633	28.266	66.650	1.00	22.68	C
ATOM	6178	C	SER	B	371	24.595	29.016	67.486	1.00	22.36	C
ATOM	6179	O	SER	B	371	23.479	28.526	67.703	1.00	21.11	O
ATOM	6180	CB	SER	B	371	26.600	27.518	67.578	1.00	23.33	C
ATOM	6181	OG	SER	B	371	27.458	26.669	66.838	1.00	24.76	O
ATOM	6182	N	ALA	B	372	24.969	30.204	67.956	1.00	21.86	N
ATOM	6183	CA	ALA	B	372	24.076	31.028	68.769	1.00	21.26	C
ATOM	6184	C	ALA	B	372	22.874	31.498	67.945	1.00	22.20	C
ATOM	6185	O	ALA	B	372	21.753	31.579	68.451	1.00	21.98	O
ATOM	6186	CB	ALA	B	372	24.834	32.230	69.326	1.00	18.25	C
ATOM	6187	N	TYR	B	373	23.093	31.815	66.675	1.00	21.47	N
ATOM	6188	CA	TYR	B	373	21.963	32.256	65.873	1.00	22.34	C
ATOM	6189	C	TYR	B	373	21.031	31.105	65.527	1.00	21.69	C
ATOM	6190	O	TYR	B	373	19.812	31.252	65.587	1.00	22.05	O
ATOM	6191	CB	TYR	B	373	22.399	32.930	64.575	1.00	21.93	C
ATOM	6192	CG	TYR	B	373	21.196	33.525	63.891	1.00	23.95	C
ATOM	6193	CD1	TYR	B	373	20.595	34.680	64.397	1.00	23.18	C
ATOM	6194	CD2	TYR	B	373	20.566	32.864	62.835	1.00	21.27	C
ATOM	6195	CE1	TYR	B	373	19.394	35.152	63.883	1.00	21.63	C
ATOM	6196	CE2	TYR	B	373	19.361	33.332	62.314	1.00	22.66	C
ATOM	6197	CZ	TYR	B	373	18.784	34.473	62.849	1.00	20.55	C
ATOM	6198	OH	TYR	B	373	17.583	34.929	62.379	1.00	22.90	O
ATOM	6199	N	VAL	B	374	21.608	29.964	65.153	1.00	22.37	N



ATOM	6200	CA	VAL	B	374	20.820	28.784	64.805	1.00	22.99	C
ATOM	6201	C	VAL	B	374	19.882	28.378	65.946	1.00	22.26	C
ATOM	6202	O	VAL	B	374	18.781	27.891	65.705	1.00	22.79	O
ATOM	6203	CB	VAL	B	374	21.742	27.597	64.428	1.00	23.39	C
ATOM	6204	CG1	VAL	B	374	20.911	26.360	64.089	1.00	22.37	C
ATOM	6205	CG2	VAL	B	374	22.598	27.984	63.235	1.00	21.78	C
ATOM	6206	N	GLU	B	375	20.313	28.577	67.186	1.00	22.98	N
ATOM	6207	CA	GLU	B	375	19.467	28.253	68.336	1.00	24.05	C
ATOM	6208	C	GLU	B	375	18.214	29.127	68.296	1.00	23.53	C
ATOM	6209	O	GLU	B	375	17.113	28.667	68.596	1.00	24.83	O
ATOM	6210	CB	GLU	B	375	20.201	28.525	69.651	1.00	27.13	C
ATOM	6211	CG	GLU	B	375	21.106	27.412	70.133	1.00	32.75	C
ATOM	6212	CD	GLU	B	375	21.841	27.786	71.408	1.00	36.51	C
ATOM	6213	OE1	GLU	B	375	21.200	28.356	72.321	1.00	39.95	O
ATOM	6214	OE2	GLU	B	375	23.056	27.506	71.500	1.00	37.21	O
ATOM	6215	N	LEU	B	376	18.388	30.398	67.944	1.00	21.35	N
ATOM	6216	CA	LEU	B	376	17.255	31.309	67.866	1.00	20.87	C
ATOM	6217	C	LEU	B	376	16.327	30.883	66.736	1.00	20.39	C
ATOM	6218	O	LEU	B	376	15.116	30.769	66.934	1.00	17.85	O
ATOM	6219	CB	LEU	B	376	17.722	32.754	67.635	1.00	19.68	C
ATOM	6220	CG	LEU	B	376	16.596	33.785	67.443	1.00	22.20	C
ATOM	6221	CD1	LEU	B	376	15.642	33.745	68.639	1.00	17.86	C
ATOM	6222	CD2	LEU	B	376	17.187	35.193	67.270	1.00	20.82	C
ATOM	6223	N	GLN	B	377	16.900	30.642	65.557	1.00	19.69	N
ATOM	6224	CA	GLN	B	377	16.102	30.234	64.410	1.00	21.60	C
ATOM	6225	C	GLN	B	377	15.304	28.977	64.745	1.00	22.61	C
ATOM	6226	O	GLN	B	377	14.144	28.851	64.357	1.00	21.49	O
ATOM	6227	CB	GLN	B	377	16.987	29.987	63.180	1.00	21.03	C
ATOM	6228	CG	GLN	B	377	16.174	29.603	61.936	1.00	24.38	C
ATOM	6229	CD	GLN	B	377	17.006	29.523	60.663	1.00	24.80	C
ATOM	6230	OE1	GLN	B	377	16.806	30.298	59.725	1.00	24.38	O
ATOM	6231	NE2	GLN	B	377	17.944	28.585	60.625	1.00	23.74	N
ATOM	6232	N	GLU	B	378	15.922	28.053	65.480	1.00	23.42	N
ATOM	6233	CA	GLU	B	378	15.235	26.823	65.857	1.00	24.40	C
ATOM	6234	C	GLU	B	378	14.113	27.094	66.858	1.00	22.87	C
ATOM	6235	O	GLU	B	378	13.097	26.400	66.857	1.00	23.77	O
ATOM	6236	CB	GLU	B	378	16.221	25.802	66.434	1.00	24.36	C
ATOM	6237	CG	GLU	B	378	17.133	25.150	65.397	1.00	26.46	C
ATOM	6238	CD	GLU	B	378	16.368	24.388	64.318	1.00	29.63	C
ATOM	6239	OE1	GLU	B	378	15.507	23.548	64.664	1.00	28.84	O
ATOM	6240	OE2	GLU	B	378	16.637	24.624	63.118	1.00	30.38	O
ATOM	6241	N	ARG	B	379	14.289	28.095	67.713	1.00	22.81	N
ATOM	6242	CA	ARG	B	379	13.241	28.417	68.675	1.00	23.64	C
ATOM	6243	C	ARG	B	379	12.080	29.019	67.901	1.00	23.26	C
ATOM	6244	O	ARG	B	379	10.914	28.774	68.220	1.00	23.25	O
ATOM	6245	CB	ARG	B	379	13.737	29.402	69.735	1.00	25.23	C
ATOM	6246	CG	ARG	B	379	14.739	28.807	70.720	1.00	27.59	C
ATOM	6247	CD	ARG	B	379	14.702	29.551	72.056	1.00	31.46	C
ATOM	6248	NE	ARG	B	379	15.188	30.924	71.955	1.00	34.40	N
ATOM	6249	CZ	ARG	B	379	16.470	31.254	71.843	1.00	37.50	C
ATOM	6250	NH1	ARG	B	379	17.402	30.307	71.820	1.00	39.12	N
ATOM	6251	NH2	ARG	B	379	16.823	32.530	71.755	1.00	37.39	N
ATOM	6252	N	GLU	B	380	12.409	29.791	66.867	1.00	21.90	N
ATOM	6253	CA	GLU	B	380	11.396	30.410	66.021	1.00	22.04	C
ATOM	6254	C	GLU	B	380	10.572	29.323	65.351	1.00	23.42	C
ATOM	6255	O	GLU	B	380	9.336	29.367	65.370	1.00	23.15	O
ATOM	6256	CB	GLU	B	380	12.044	31.297	64.961	1.00	21.66	C
ATOM	6257	CG	GLU	B	380	12.533	32.634	65.492	1.00	21.52	C
ATOM	6258	CD	GLU	B	380	13.074	33.531	64.396	1.00	22.74	C
ATOM	6259	OE1	GLU	B	380	14.183	33.258	63.892	1.00	22.20	O
ATOM	6260	OE2	GLU	B	380	12.380	34.505	64.028	1.00	24.15	O
ATOM	6261	N	PHE	B	381	11.253	28.344	64.761	1.00	23.73	N
ATOM	6262	CA	PHE	B	381	10.555	27.233	64.114	1.00	25.49	C
ATOM	6263	C	PHE	B	381	9.631	26.561	65.128	1.00	25.39	C
ATOM	6264	O	PHE	B	381	8.461	26.296	64.848	1.00	25.97	O
ATOM	6265	CB	PHE	B	381	11.548	26.183	63.583	1.00	24.55	C
ATOM	6266	CG	PHE	B	381	12.252	26.586	62.315	1.00	25.19	C
ATOM	6267	CD1	PHE	B	381	11.533	27.067	61.224	1.00	25.44	C
ATOM	6268	CD2	PHE	B	381	13.632	26.446	62.199	1.00	25.53	C
ATOM	6269	CE1	PHE	B	381	12.176	27.401	60.035	1.00	24.79	C
ATOM	6270	CE2	PHE	B	381	14.284	26.776	61.015	1.00	26.38	C
ATOM	6271	CZ	PHE	B	381	13.550	27.256	59.928	1.00	25.28	C
ATOM	6272	N	ALA	B	382	10.166	26.294	66.312	1.00	25.17	N
ATOM	6273	CA	ALA	B	382	9.398	25.640	67.358	1.00	26.34	C
ATOM	6274	C	ALA	B	382	8.190	26.456	67.802	1.00	26.22	C
ATOM	6275	O	ALA	B	382	7.164	25.894	68.167	1.00	27.32	O
ATOM	6276	CB	ALA	B	382	10.299	25.346	68.555	1.00	26.81	C
ATOM	6277	N	ALA	B	383	8.300	27.778	67.771	1.00	25.88	N
ATOM	6278	CA	ALA	B	383	7.186	28.615	68.199	1.00	23.86	C
ATOM	6279	C	ALA	B	383	6.074	28.666	67.156	1.00	25.46	C



ATOM	6280	O	ALA	B	383	4.979	29.169	67.430	1.00	24.12	O
ATOM	6281	CB	ALA	B	383	7.678	30.018	68.518	1.00	23.88	C
ATOM	6282	N	GLU	B	384	6.341	28.131	65.967	1.00	26.73	N
ATOM	6283	CA	GLU	B	384	5.335	28.144	64.906	1.00	30.00	C
ATOM	6284	C	GLU	B	384	4.057	27.414	65.303	1.00	30.63	C
ATOM	6285	O	GLU	B	384	2.973	27.766	64.841	1.00	28.36	O
ATOM	6286	CB	GLU	B	384	5.894	27.545	63.611	1.00	30.35	C
ATOM	6287	CG	GLU	B	384	7.083	28.320	63.052	1.00	34.29	C
ATOM	6288	CD	GLU	B	384	7.456	27.902	61.645	1.00	34.94	C
ATOM	6289	OE1	GLU	B	384	7.442	26.690	61.357	1.00	38.03	O
ATOM	6290	OE2	GLU	B	384	7.779	28.787	60.829	1.00	39.27	O
ATOM	6291	N	GLU	B	385	4.177	26.404	66.160	1.00	31.60	N
ATOM	6292	CA	GLU	B	385	2.994	25.678	66.585	1.00	35.03	C
ATOM	6293	C	GLU	B	385	2.151	26.518	67.539	1.00	34.07	C
ATOM	6294	O	GLU	B	385	0.988	26.201	67.786	1.00	34.94	O
ATOM	6295	CB	GLU	B	385	3.373	24.333	67.217	1.00	37.77	C
ATOM	6296	CG	GLU	B	385	4.367	24.389	68.350	1.00	44.51	C
ATOM	6297	CD	GLU	B	385	4.843	22.999	68.749	1.00	48.89	C
ATOM	6298	OE1	GLU	B	385	3.982	22.134	69.027	1.00	48.75	O
ATOM	6299	OE2	GLU	B	385	6.074	22.772	68.782	1.00	51.39	O
ATOM	6300	N	ARG	B	386	2.737	27.594	68.062	1.00	32.86	N
ATOM	6301	CA	ARG	B	386	2.022	28.504	68.958	1.00	31.04	C
ATOM	6302	C	ARG	B	386	1.398	29.638	68.138	1.00	29.52	C
ATOM	6303	O	ARG	B	386	0.673	30.479	68.668	1.00	28.47	O
ATOM	6304	CB	ARG	B	386	2.970	29.104	70.010	1.00	31.45	C
ATOM	6305	CG	ARG	B	386	3.363	28.157	71.135	1.00	34.91	C
ATOM	6306	CD	ARG	B	386	4.131	28.880	72.238	1.00	35.91	C
ATOM	6307	NE	ARG	B	386	5.471	29.296	71.824	1.00	39.09	N
ATOM	6308	CZ	ARG	B	386	6.229	30.154	72.505	1.00	39.62	C
ATOM	6309	NH1	ARG	B	386	5.773	30.691	73.631	1.00	39.69	N
ATOM	6310	NH2	ARG	B	386	7.446	30.471	72.072	1.00	37.08	N
ATOM	6311	N	GLY	B	387	1.693	29.662	66.842	1.00	28.72	N
ATOM	6312	CA	GLY	B	387	1.148	30.701	65.983	1.00	28.22	C
ATOM	6313	C	GLY	B	387	2.186	31.638	65.384	1.00	27.23	C
ATOM	6314	O	GLY	B	387	1.870	32.442	64.508	1.00	28.32	O
ATOM	6315	N	TYR	B	388	3.426	31.539	65.846	1.00	25.75	N
ATOM	6316	CA	TYR	B	388	4.498	32.390	65.338	1.00	25.04	C
ATOM	6317	C	TYR	B	388	4.625	32.221	63.827	1.00	25.29	C
ATOM	6318	O	TYR	B	388	4.568	31.099	63.315	1.00	26.24	O
ATOM	6319	CB	TYR	B	388	5.820	32.020	66.002	1.00	22.12	C
ATOM	6320	CG	TYR	B	388	6.932	32.988	65.708	1.00	21.87	C
ATOM	6321	CD1	TYR	B	388	6.874	34.305	66.171	1.00	20.26	C
ATOM	6322	CD2	TYR	B	388	8.063	32.585	64.997	1.00	18.29	C
ATOM	6323	CE1	TYR	B	388	7.918	35.196	65.940	1.00	19.35	C
ATOM	6324	CE2	TYR	B	388	9.112	33.462	64.762	1.00	19.23	C
ATOM	6325	CZ	TYR	B	388	9.037	34.767	65.239	1.00	20.12	C
ATOM	6326	OH	TYR	B	388	10.095	35.626	65.050	1.00	18.27	O
ATOM	6327	N	THR	B	389	4.813	33.329	63.118	1.00	23.98	N
ATOM	6328	CA	THR	B	389	4.926	33.285	61.663	1.00	22.77	C
ATOM	6329	C	THR	B	389	6.102	34.075	61.100	1.00	22.70	C
ATOM	6330	O	THR	B	389	6.369	34.012	59.906	1.00	22.66	O
ATOM	6331	CB	THR	B	389	3.654	33.839	60.993	1.00	22.86	C
ATOM	6332	OG1	THR	B	389	3.466	35.200	61.396	1.00	20.58	O
ATOM	6333	CG2	THR	B	389	2.427	33.014	61.388	1.00	21.37	C
ATOM	6334	N	ALA	B	390	6.799	34.817	61.953	1.00	22.76	N
ATOM	6335	CA	ALA	B	390	7.919	35.638	61.504	1.00	21.33	C
ATOM	6336	C	ALA	B	390	9.155	34.865	61.048	1.00	21.21	C
ATOM	6337	O	ALA	B	390	10.096	35.464	60.535	1.00	20.31	O
ATOM	6338	CB	ALA	B	390	8.303	36.631	62.596	1.00	20.68	C
ATOM	6339	N	THR	B	391	9.170	33.547	61.234	1.00	20.99	N
ATOM	6340	CA	THR	B	391	10.320	32.759	60.793	1.00	21.07	C
ATOM	6341	C	THR	B	391	10.459	32.946	59.280	1.00	20.63	C
ATOM	6342	O	THR	B	391	11.565	32.959	58.730	1.00	18.21	O
ATOM	6343	CB	THR	B	391	10.148	31.263	61.104	1.00	23.90	C
ATOM	6344	OG1	THR	B	391	9.661	31.098	62.443	1.00	22.91	O
ATOM	6345	CG2	THR	B	391	11.492	30.561	60.989	1.00	22.27	C
ATOM	6346	N	LYS	B	392	9.322	33.084	58.606	1.00	20.26	N
ATOM	6347	CA	LYS	B	392	9.328	33.331	57.172	1.00	20.84	C
ATOM	6348	C	LYS	B	392	9.186	34.851	57.079	1.00	19.49	C
ATOM	6349	O	LYS	B	392	8.093	35.390	56.887	1.00	16.46	O
ATOM	6350	CB	LYS	B	392	8.163	32.604	56.500	1.00	21.84	C
ATOM	6351	CG	LYS	B	392	8.193	31.106	56.779	1.00	25.28	C
ATOM	6352	CD	LYS	B	392	7.704	30.283	55.617	1.00	27.88	C
ATOM	6353	CE	LYS	B	392	6.218	30.419	55.405	1.00	32.09	C
ATOM	6354	NZ	LYS	B	392	5.814	29.771	54.123	1.00	34.23	N
ATOM	6355	N	HIS	B	393	10.318	35.527	57.253	1.00	18.65	N
ATOM	6356	CA	HIS	B	393	10.371	36.984	57.247	1.00	20.15	C
ATOM	6357	C	HIS	B	393	9.907	37.707	55.984	1.00	18.46	C
ATOM	6358	O	HIS	B	393	9.379	38.821	56.079	1.00	18.43	O
ATOM	6359	CB	HIS	B	393	11.786	37.459	57.612	1.00	18.54	C



ATOM	6360	CG	HIS	B	393	12.873	36.812	56.813	1.00	19.87	C
ATOM	6361	ND1	HIS	B	393	13.749	35.894	57.356	1.00	19.65	N
ATOM	6362	CD2	HIS	B	393	13.244	36.969	55.520	1.00	17.65	C
ATOM	6363	CE1	HIS	B	393	14.615	35.518	56.431	1.00	19.24	C
ATOM	6364	NE2	HIS	B	393	14.331	36.157	55.309	1.00	17.04	N
ATOM	6365	N	GLN	B	394	10.100	37.092	54.816	1.00	16.87	N
ATOM	6366	CA	GLN	B	394	9.711	37.721	53.553	1.00	17.93	C
ATOM	6367	C	GLN	B	394	8.215	38.010	53.521	1.00	17.64	C
ATOM	6368	O	GLN	B	394	7.803	39.157	53.375	1.00	15.82	O
ATOM	6369	CB	GLN	B	394	10.098	36.836	52.358	1.00	18.44	C
ATOM	6370	CG	GLN	B	394	11.556	36.378	52.367	1.00	16.41	C
ATOM	6371	CD	GLN	B	394	12.546	37.508	52.149	1.00	19.42	C
ATOM	6372	OE1	GLN	B	394	12.275	38.665	52.476	1.00	16.81	O
ATOM	6373	NE2	GLN	B	394	13.717	37.171	51.607	1.00	18.45	N
ATOM	6374	N	ARG	B	395	7.407	36.966	53.665	1.00	17.54	N
ATOM	6375	CA	ARG	B	395	5.961	37.130	53.655	1.00	17.47	C
ATOM	6376	C	ARG	B	395	5.523	37.953	54.852	1.00	16.58	C
ATOM	6377	O	ARG	B	395	4.608	38.770	54.746	1.00	18.04	O
ATOM	6378	CB	ARG	B	395	5.259	35.769	53.689	1.00	17.43	C
ATOM	6379	CG	ARG	B	395	5.731	34.868	54.807	1.00	19.07	C
ATOM	6380	CD	ARG	B	395	4.614	33.961	55.277	1.00	21.13	C
ATOM	6381	NE	ARG	B	395	3.515	34.720	55.865	1.00	21.36	N
ATOM	6382	CZ	ARG	B	395	3.609	35.439	56.982	1.00	22.93	C
ATOM	6383	NH1	ARG	B	395	4.761	35.503	57.644	1.00	18.73	N
ATOM	6384	NH2	ARG	B	395	2.543	36.086	57.443	1.00	21.96	N
ATOM	6385	N	GLU	B	396	6.185	37.740	55.986	1.00	14.08	N
ATOM	6386	CA	GLU	B	396	5.868	38.453	57.217	1.00	15.55	C
ATOM	6387	C	GLU	B	396	5.889	39.961	57.006	1.00	17.99	C
ATOM	6388	O	GLU	B	396	5.166	40.699	57.671	1.00	18.35	O
ATOM	6389	CB	GLU	B	396	6.885	38.093	58.307	1.00	16.99	C
ATOM	6390	CG	GLU	B	396	6.608	38.683	59.696	1.00	15.26	C
ATOM	6391	CD	GLU	B	396	5.385	38.064	60.386	1.00	17.33	C
ATOM	6392	OE1	GLU	B	396	5.008	36.919	60.059	1.00	11.42	O
ATOM	6393	OE2	GLU	B	396	4.812	38.724	61.274	1.00	15.41	O
ATOM	6394	N	VAL	B	397	6.721	40.421	56.080	1.00	18.36	N
ATOM	6395	CA	VAL	B	397	6.825	41.851	55.836	1.00	20.57	C
ATOM	6396	C	VAL	B	397	6.094	42.308	54.560	1.00	20.20	C
ATOM	6397	O	VAL	B	397	6.242	43.444	54.117	1.00	20.82	O
ATOM	6398	CB	VAL	B	397	8.335	42.289	55.845	1.00	21.31	C
ATOM	6399	CG1	VAL	B	397	9.066	41.786	54.616	1.00	21.95	C
ATOM	6400	CG2	VAL	B	397	8.433	43.770	55.943	1.00	28.30	C
ATOM	6401	N	GLY	B	398	5.293	41.417	53.977	1.00	19.04	N
ATOM	6402	CA	GLY	B	398	4.521	41.787	52.801	1.00	17.98	C
ATOM	6403	C	GLY	B	398	5.015	41.420	51.414	1.00	18.90	C
ATOM	6404	O	GLY	B	398	4.443	41.880	50.425	1.00	16.21	O
ATOM	6405	N	ALA	B	399	6.065	40.606	51.325	1.00	19.15	N
ATOM	6406	CA	ALA	B	399	6.601	40.200	50.026	1.00	19.63	C
ATOM	6407	C	ALA	B	399	5.482	39.613	49.166	1.00	17.78	C
ATOM	6408	O	ALA	B	399	5.429	39.842	47.958	1.00	17.84	O
ATOM	6409	CB	ALA	B	399	7.724	39.164	50.211	1.00	16.47	C
ATOM	6410	N	GLY	B	400	4.594	38.857	49.804	1.00	17.79	N
ATOM	6411	CA	GLY	B	400	3.481	38.248	49.096	1.00	17.98	C
ATOM	6412	C	GLY	B	400	2.429	39.276	48.723	1.00	18.41	C
ATOM	6413	O	GLY	B	400	1.818	39.200	47.659	1.00	19.43	O
ATOM	6414	N	TYR	B	401	2.217	40.246	49.605	1.00	19.80	N
ATOM	6415	CA	TYR	B	401	1.243	41.294	49.358	1.00	18.95	C
ATOM	6416	C	TYR	B	401	1.671	42.152	48.167	1.00	20.02	C
ATOM	6417	O	TYR	B	401	0.867	42.424	47.270	1.00	22.86	O
ATOM	6418	CB	TYR	B	401	1.078	42.168	50.598	1.00	17.66	C
ATOM	6419	CG	TYR	B	401	0.072	43.281	50.421	1.00	19.44	C
ATOM	6420	CD1	TYR	B	401	-1.296	43.006	50.317	1.00	18.80	C
ATOM	6421	CD2	TYR	B	401	0.487	44.611	50.339	1.00	15.51	C
ATOM	6422	CE1	TYR	B	401	-2.222	44.028	50.136	1.00	16.48	C
ATOM	6423	CE2	TYR	B	401	-0.426	45.641	50.161	1.00	15.14	C
ATOM	6424	CZ	TYR	B	401	-1.779	45.349	50.061	1.00	18.15	C
ATOM	6425	OH	TYR	B	401	-2.681	46.380	49.908	1.00	12.99	O
ATOM	6426	N	PHE	B	402	2.931	42.575	48.146	1.00	17.82	N
ATOM	6427	CA	PHE	B	402	3.397	43.390	47.038	1.00	18.12	C
ATOM	6428	C	PHE	B	402	3.483	42.596	45.736	1.00	17.86	C
ATOM	6429	O	PHE	B	402	3.372	43.165	44.652	1.00	16.09	O
ATOM	6430	CB	PHE	B	402	4.723	44.081	47.394	1.00	16.67	C
ATOM	6431	CG	PHE	B	402	4.537	45.287	48.291	1.00	16.37	C
ATOM	6432	CD1	PHE	B	402	4.347	45.132	49.661	1.00	14.56	C
ATOM	6433	CD2	PHE	B	402	4.433	46.567	47.745	1.00	15.68	C
ATOM	6434	CE1	PHE	B	402	4.048	46.229	50.476	1.00	15.51	C
ATOM	6435	CE2	PHE	B	402	4.133	47.672	48.547	1.00	16.21	C
ATOM	6436	CZ	PHE	B	402	3.937	47.503	49.918	1.00	16.05	C
ATOM	6437	N	ASP	B	403	3.656	41.280	45.836	1.00	19.02	N
ATOM	6438	CA	ASP	B	403	3.688	40.451	44.637	1.00	21.01	C
ATOM	6439	C	ASP	B	403	2.288	40.527	44.033	1.00	21.05	C



ATOM	6440	O	ASP	B	403	2.123	40.559	42.814	1.00	22.45	O
ATOM	6441	CB	ASP	B	403	4.016	38.990	44.979	1.00	21.11	C
ATOM	6442	CG	ASP	B	403	5.504	38.680	44.872	1.00	24.69	C
ATOM	6443	OD1	ASP	B	403	6.285	39.576	44.482	1.00	24.29	O
ATOM	6444	OD2	ASP	B	403	5.895	37.532	45.175	1.00	25.75	O
ATOM	6445	N	ARG	B	404	1.284	40.565	44.909	1.00	21.16	N
ATOM	6446	CA	ARG	B	404	-0.113	40.636	44.498	1.00	21.03	C
ATOM	6447	C	ARG	B	404	-0.345	41.956	43.780	1.00	19.29	C
ATOM	6448	O	ARG	B	404	-0.983	42.005	42.735	1.00	20.16	O
ATOM	6449	CB	ARG	B	404	-1.027	40.525	45.723	1.00	24.14	C
ATOM	6450	CG	ARG	B	404	-2.503	40.374	45.400	1.00	30.07	C
ATOM	6451	CD	ARG	B	404	-2.751	39.151	44.523	1.00	35.30	C
ATOM	6452	NE	ARG	B	404	-4.152	39.022	44.119	1.00	40.43	N
ATOM	6453	CZ	ARG	B	404	-5.109	38.475	44.864	1.00	41.04	C
ATOM	6454	NH1	ARG	B	404	-4.831	37.992	46.070	1.00	39.83	N
ATOM	6455	NH2	ARG	B	404	-6.346	38.402	44.393	1.00	41.14	N
ATOM	6456	N	ILE	B	405	0.172	43.035	44.347	1.00	17.81	N
ATOM	6457	CA	ILE	B	405	0.028	44.327	43.706	1.00	15.72	C
ATOM	6458	C	ILE	B	405	0.728	44.270	42.348	1.00	16.34	C
ATOM	6459	O	ILE	B	405	0.180	44.713	41.340	1.00	16.65	O
ATOM	6460	CB	ILE	B	405	0.658	45.449	44.555	1.00	13.18	C
ATOM	6461	CG1	ILE	B	405	-0.119	45.615	45.859	1.00	13.20	C
ATOM	6462	CG2	ILE	B	405	0.645	46.755	43.783	1.00	13.82	C
ATOM	6463	CD1	ILE	B	405	0.507	46.596	46.832	1.00	12.71	C
ATOM	6464	N	ALA	B	406	1.936	43.710	42.318	1.00	16.88	N
ATOM	6465	CA	ALA	B	406	2.694	43.623	41.067	1.00	18.80	C
ATOM	6466	C	ALA	B	406	1.971	42.849	39.969	1.00	18.61	C
ATOM	6467	O	ALA	B	406	1.990	43.257	38.811	1.00	17.17	O
ATOM	6468	CB	ALA	B	406	4.061	42.997	41.313	1.00	15.36	C
ATOM	6469	N	THR	B	407	1.346	41.733	40.335	1.00	19.72	N
ATOM	6470	CA	THR	B	407	0.632	40.911	39.365	1.00	19.09	C
ATOM	6471	C	THR	B	407	-0.724	41.507	39.011	1.00	20.09	C
ATOM	6472	O	THR	B	407	-1.311	41.149	37.991	1.00	21.18	O
ATOM	6473	CB	THR	B	407	0.442	39.468	39.880	1.00	18.53	C
ATOM	6474	OG1	THR	B	407	-0.218	39.496	41.149	1.00	20.63	O
ATOM	6475	CG2	THR	B	407	1.795	38.773	40.034	1.00	17.85	C
ATOM	6476	N	THR	B	408	-1.227	42.412	39.850	1.00	20.57	N
ATOM	6477	CA	THR	B	408	-2.505	43.064	39.558	1.00	21.22	C
ATOM	6478	C	THR	B	408	-2.247	44.113	38.477	1.00	21.44	C
ATOM	6479	O	THR	B	408	-3.056	44.301	37.567	1.00	21.28	O
ATOM	6480	CB	THR	B	408	-3.108	43.766	40.800	1.00	20.95	C
ATOM	6481	OG1	THR	B	408	-3.433	42.788	41.796	1.00	19.87	O
ATOM	6482	CG2	THR	B	408	-4.380	44.523	40.420	1.00	18.51	C
ATOM	6483	N	VAL	B	409	-1.108	44.791	38.589	1.00	21.73	N
ATOM	6484	CA	VAL	B	409	-0.719	45.810	37.621	1.00	22.35	C
ATOM	6485	C	VAL	B	409	-0.288	45.133	36.323	1.00	23.81	C
ATOM	6486	O	VAL	B	409	-0.655	45.567	35.237	1.00	23.87	O
ATOM	6487	CB	VAL	B	409	0.453	46.673	38.145	1.00	21.31	C
ATOM	6488	CG1	VAL	B	409	0.997	47.552	37.027	1.00	20.11	C
ATOM	6489	CG2	VAL	B	409	-0.013	47.534	39.303	1.00	19.80	C
ATOM	6490	N	ASP	B	410	0.501	44.074	36.444	1.00	24.37	N
ATOM	6491	CA	ASP	B	410	0.964	43.337	35.281	1.00	27.32	C
ATOM	6492	C	ASP	B	410	1.065	41.853	35.619	1.00	28.75	C
ATOM	6493	O	ASP	B	410	2.045	41.406	36.209	1.00	27.76	O
ATOM	6494	CB	ASP	B	410	2.322	43.874	34.813	1.00	28.22	C
ATOM	6495	CG	ASP	B	410	2.904	43.072	33.662	1.00	28.47	C
ATOM	6496	OD1	ASP	B	410	2.125	42.468	32.901	1.00	31.07	O
ATOM	6497	OD2	ASP	B	410	4.140	43.056	33.507	1.00	27.87	O
ATOM	6498	N	PRO	B	411	0.037	41.070	35.254	1.00	31.25	N
ATOM	6499	CA	PRO	B	411	0.058	39.633	35.541	1.00	31.30	C
ATOM	6500	C	PRO	B	411	1.220	38.871	34.901	1.00	32.55	C
ATOM	6501	O	PRO	B	411	1.634	37.833	35.417	1.00	34.62	O
ATOM	6502	CB	PRO	B	411	-1.318	39.157	35.056	1.00	30.67	C
ATOM	6503	CG	PRO	B	411	-1.707	40.168	34.028	1.00	30.38	C
ATOM	6504	CD	PRO	B	411	-1.236	41.466	34.625	1.00	30.07	C
ATOM	6505	N	ASN	B	412	1.757	39.383	33.795	1.00	32.40	N
ATOM	6506	CA	ASN	B	412	2.878	38.722	33.124	1.00	34.24	C
ATOM	6507	C	ASN	B	412	4.236	39.251	33.584	1.00	34.52	C
ATOM	6508	O	ASN	B	412	5.239	39.069	32.894	1.00	36.05	O
ATOM	6509	CB	ASN	B	412	2.784	38.889	31.603	1.00	35.23	C
ATOM	6510	CG	ASN	B	412	1.445	38.456	31.046	1.00	37.74	C
ATOM	6511	OD1	ASN	B	412	0.963	37.355	31.324	1.00	38.18	O
ATOM	6512	ND2	ASN	B	412	0.835	39.323	30.246	1.00	39.43	N
ATOM	6513	N	SER	B	413	4.271	39.907	34.739	1.00	33.25	N
ATOM	6514	CA	SER	B	413	5.518	40.459	35.264	1.00	32.68	C
ATOM	6515	C	SER	B	413	6.542	39.378	35.573	1.00	33.00	C
ATOM	6516	O	SER	B	413	6.236	38.416	36.274	1.00	33.61	O
ATOM	6517	CB	SER	B	413	5.258	41.252	36.540	1.00	32.26	C
ATOM	6518	OG	SER	B	413	6.482	41.504	37.207	1.00	30.38	O
ATOM	6519	N	SER	B	414	7.761	39.548	35.067	1.00	32.27	N



ATOM	6520	CA	SER	B	414	8.825	38.575	35.303	1.00	33.67	C
ATOM	6521	C	SER	B	414	9.721	38.968	36.474	1.00	32.76	C
ATOM	6522	O	SER	B	414	10.789	38.389	36.676	1.00	32.39	O
ATOM	6523	CB	SER	B	414	9.680	38.392	34.044	1.00	34.13	C
ATOM	6524	OG	SER	B	414	10.323	39.598	33.669	1.00	37.40	O
ATOM	6525	N	THR	B	415	9.274	39.935	37.264	1.00	32.20	N
ATOM	6526	CA	THR	B	415	10.067	40.388	38.394	1.00	31.58	C
ATOM	6527	C	THR	B	415	9.400	40.250	39.762	1.00	31.16	C
ATOM	6528	O	THR	B	415	9.668	41.051	40.659	1.00	30.83	O
ATOM	6529	CB	THR	B	415	10.495	41.856	38.197	1.00	32.74	C
ATOM	6530	OG1	THR	B	415	9.329	42.682	38.058	1.00	32.71	O
ATOM	6531	CG2	THR	B	415	11.361	41.988	36.950	1.00	31.24	C
ATOM	6532	N	THR	B	416	8.539	39.248	39.928	1.00	29.43	N
ATOM	6533	CA	THR	B	416	7.886	39.040	41.218	1.00	29.17	C
ATOM	6534	C	THR	B	416	8.929	38.522	42.207	1.00	28.24	C
ATOM	6535	O	THR	B	416	9.965	38.008	41.799	1.00	26.19	O
ATOM	6536	CB	THR	B	416	6.704	38.054	41.114	1.00	29.47	C
ATOM	6537	OG1	THR	B	416	7.139	36.836	40.503	1.00	27.98	O
ATOM	6538	CG2	THR	B	416	5.581	38.675	40.287	1.00	29.88	C
ATOM	6539	N	ALA	B	417	8.641	38.644	43.500	1.00	29.71	N
ATOM	6540	CA	ALA	B	417	9.586	38.269	44.554	1.00	30.10	C
ATOM	6541	C	ALA	B	417	9.601	36.863	45.149	1.00	30.39	C
ATOM	6542	O	ALA	B	417	10.662	36.239	45.221	1.00	27.86	O
ATOM	6543	CB	ALA	B	417	9.476	39.278	45.695	1.00	30.33	C
ATOM	6544	N	LEU	B	418	8.450	36.372	45.600	1.00	30.73	N
ATOM	6545	CA	LEU	B	418	8.407	35.058	46.237	1.00	32.86	C
ATOM	6546	C	LEU	B	418	8.769	33.858	45.375	1.00	32.63	C
ATOM	6547	O	LEU	B	418	9.428	32.938	45.857	1.00	33.15	O
ATOM	6548	CB	LEU	B	418	7.043	34.824	46.901	1.00	32.78	C
ATOM	6549	CG	LEU	B	418	6.797	35.663	48.164	1.00	33.79	C
ATOM	6550	CD1	LEU	B	418	5.545	35.170	48.875	1.00	31.18	C
ATOM	6551	CD2	LEU	B	418	8.006	35.561	49.095	1.00	32.01	C
ATOM	6552	N	THR	B	419	8.346	33.856	44.116	1.00	31.94	N
ATOM	6553	CA	THR	B	419	8.657	32.739	43.229	1.00	32.10	C
ATOM	6554	C	THR	B	419	10.165	32.649	43.016	1.00	32.32	C
ATOM	6555	O	THR	B	419	10.793	33.580	42.508	1.00	31.06	O
ATOM	6556	CB	THR	B	419	7.954	32.891	41.855	1.00	32.47	C
ATOM	6557	OG1	THR	B	419	6.533	32.780	42.023	1.00	32.09	O
ATOM	6558	CG2	THR	B	419	8.426	31.818	40.897	1.00	30.44	C
ATOM	6559	N	GLY	B	420	10.746	31.523	43.415	1.00	32.57	N
ATOM	6560	CA	GLY	B	420	12.176	31.343	43.260	1.00	33.49	C
ATOM	6561	C	GLY	B	420	12.977	31.799	44.468	1.00	33.57	C
ATOM	6562	O	GLY	B	420	14.197	31.651	44.493	1.00	35.19	O
ATOM	6563	N	SER	B	421	12.303	32.353	45.471	1.00	32.46	N
ATOM	6564	CA	SER	B	421	12.988	32.813	46.678	1.00	32.42	C
ATOM	6565	C	SER	B	421	13.407	31.610	47.523	1.00	33.27	C
ATOM	6566	O	SER	B	421	12.864	30.512	47.368	1.00	31.68	O
ATOM	6567	CB	SER	B	421	12.063	33.704	47.505	1.00	30.41	C
ATOM	6568	OG	SER	B	421	11.003	32.944	48.054	1.00	25.67	O
ATOM	6569	N	THR	B	422	14.363	31.815	48.422	1.00	32.66	N
ATOM	6570	CA	THR	B	422	14.818	30.725	49.269	1.00	34.44	C
ATOM	6571	C	THR	B	422	13.752	30.417	50.318	1.00	34.92	C
ATOM	6572	O	THR	B	422	13.677	29.299	50.838	1.00	34.54	O
ATOM	6573	CB	THR	B	422	16.150	31.066	49.971	1.00	33.34	C
ATOM	6574	OG1	THR	B	422	15.990	32.249	50.762	1.00	36.44	O
ATOM	6575	CG2	THR	B	422	17.239	31.304	48.945	1.00	35.34	C
ATOM	6576	N	GLU	B	423	12.921	31.408	50.626	1.00	33.74	N
ATOM	6577	CA	GLU	B	423	11.866	31.200	51.608	1.00	32.66	C
ATOM	6578	C	GLU	B	423	10.888	30.178	51.051	1.00	33.14	C
ATOM	6579	O	GLU	B	423	10.392	29.319	51.776	1.00	31.87	O
ATOM	6580	CB	GLU	B	423	11.141	32.514	51.918	1.00	30.37	C
ATOM	6581	CG	GLU	B	423	9.956	32.353	52.873	1.00	28.81	C
ATOM	6582	CD	GLU	B	423	9.545	33.662	53.528	1.00	27.73	C
ATOM	6583	OE1	GLU	B	423	10.351	34.205	54.309	1.00	23.79	O
ATOM	6584	OE2	GLU	B	423	8.422	34.145	53.262	1.00	25.77	O
ATOM	6585	N	GLU	B	424	10.622	30.274	49.754	1.00	34.09	N
ATOM	6586	CA	GLU	B	424	9.714	29.347	49.097	1.00	37.90	C
ATOM	6587	C	GLU	B	424	10.283	27.926	49.084	1.00	38.15	C
ATOM	6588	O	GLU	B	424	9.551	26.965	49.317	1.00	38.30	O
ATOM	6589	CB	GLU	B	424	9.424	29.815	47.660	1.00	39.19	C
ATOM	6590	CG	GLU	B	424	8.771	28.758	46.759	1.00	42.89	C
ATOM	6591	CD	GLU	B	424	8.370	29.299	45.387	1.00	44.11	C
ATOM	6592	OE1	GLU	B	424	7.299	29.932	45.278	1.00	44.49	O
ATOM	6593	OE2	GLU	B	424	9.133	29.098	44.418	1.00	43.30	O
ATOM	6594	N	GLY	B	425	11.588	27.803	48.835	1.00	38.92	N
ATOM	6595	CA	GLY	B	425	12.218	26.493	48.776	1.00	40.32	C
ATOM	6596	C	GLY	B	425	13.047	25.998	49.956	1.00	40.67	C
ATOM	6597	O	GLY	B	425	13.810	25.048	49.800	1.00	42.02	O
ATOM	6598	N	GLN	B	426	12.918	26.613	51.127	1.00	40.39	N
ATOM	6599	CA	GLN	B	426	13.680	26.170	52.298	1.00	39.65	C



ATOM	6600	C	GLN	B	426	12.869	26.232	53.590	1.00	39.72	C
ATOM	6601	O	GLN	B	426	13.282	25.700	54.621	1.00	38.88	O
ATOM	6602	CB	GLN	B	426	14.949	27.003	52.470	1.00	39.21	C
ATOM	6603	CG	GLN	B	426	16.064	26.686	51.493	1.00	40.62	C
ATOM	6604	CD	GLN	B	426	17.327	27.469	51.799	1.00	42.07	C
ATOM	6605	OE1	GLN	B	426	17.758	27.538	52.956	1.00	41.09	O
ATOM	6606	NE2	GLN	B	426	17.933	28.060	50.768	1.00	40.39	N
ATOM	6607	N	PHE	B	427	11.715	26.887	53.528	1.00	40.02	N
ATOM	6608	CA	PHE	B	427	10.841	27.022	54.688	1.00	40.46	C
ATOM	6609	C	PHE	B	427	9.473	26.382	54.434	1.00	41.86	C
ATOM	6610	O	PHE	B	427	9.044	25.554	55.269	1.00	42.54	O
ATOM	6611	CB	PHE	B	427	10.670	28.504	55.049	1.00	37.32	C
ATOM	6612	CG	PHE	B	427	11.923	29.147	55.588	1.00	34.23	C
ATOM	6613	CD1	PHE	B	427	13.070	29.233	54.808	1.00	33.14	C
ATOM	6614	CD2	PHE	B	427	11.956	29.653	56.882	1.00	32.30	C
ATOM	6615	CE1	PHE	B	427	14.232	29.811	55.306	1.00	32.63	C
ATOM	6616	CE2	PHE	B	427	13.111	30.234	57.392	1.00	31.91	C
ATOM	6617	CZ	PHE	B	427	14.253	30.313	56.602	1.00	32.87	C
TER	6618		PHE	B	427						
ATOM	6619	N	ALA	C	1	-13.737	44.354	66.544	1.00	50.11	N
ATOM	6620	CA	ALA	C	1	-15.164	44.158	66.158	1.00	50.22	C
ATOM	6621	C	ALA	C	1	-15.858	45.499	65.934	1.00	49.76	C
ATOM	6622	O	ALA	C	1	-16.472	46.049	66.851	1.00	50.81	O
ATOM	6623	CB	ALA	C	1	-15.895	43.366	67.245	1.00	50.96	C
ATOM	6624	N	SER	C	2	-15.753	46.023	64.715	1.00	48.45	N
ATOM	6625	CA	SER	C	2	-16.383	47.298	64.368	1.00	47.05	C
ATOM	6626	C	SER	C	2	-16.711	47.352	62.878	1.00	45.83	C
ATOM	6627	O	SER	C	2	-16.056	46.695	62.065	1.00	46.88	O
ATOM	6628	CB	SER	C	2	-15.461	48.466	64.728	1.00	46.75	C
ATOM	6629	OG	SER	C	2	-16.107	49.711	64.519	1.00	45.54	O
ATOM	6630	N	VAL	C	3	-17.723	48.136	62.523	1.00	43.31	N
ATOM	6631	CA	VAL	C	3	-18.117	48.269	61.126	1.00	41.74	C
ATOM	6632	C	VAL	C	3	-17.487	49.498	60.482	1.00	39.45	C
ATOM	6633	O	VAL	C	3	-17.607	49.707	59.275	1.00	39.00	O
ATOM	6634	CB	VAL	C	3	-19.649	48.371	60.980	1.00	42.37	C
ATOM	6635	CG1	VAL	C	3	-20.304	47.121	61.537	1.00	43.35	C
ATOM	6636	CG2	VAL	C	3	-20.159	49.608	61.693	1.00	42.46	C
ATOM	6637	N	VAL	C	4	-16.822	50.312	61.297	1.00	37.10	N
ATOM	6638	CA	VAL	C	4	-16.165	51.521	60.808	1.00	33.48	C
ATOM	6639	C	VAL	C	4	-15.077	51.132	59.810	1.00	31.84	C
ATOM	6640	O	VAL	C	4	-14.206	50.320	60.118	1.00	30.05	O
ATOM	6641	CB	VAL	C	4	-15.520	52.313	61.973	1.00	33.43	C
ATOM	6642	CG1	VAL	C	4	-14.856	53.575	61.453	1.00	30.67	C
ATOM	6643	CG2	VAL	C	4	-16.573	52.657	63.007	1.00	33.62	C
ATOM	6644	N	GLY	C	5	-15.143	51.704	58.613	1.00	30.90	N
ATOM	6645	CA	GLY	C	5	-14.152	51.409	57.594	1.00	30.44	C
ATOM	6646	C	GLY	C	5	-14.298	50.085	56.855	1.00	30.80	C
ATOM	6647	O	GLY	C	5	-13.395	49.685	56.117	1.00	28.96	O
ATOM	6648	N	THR	C	6	-15.423	49.400	57.036	1.00	30.68	N
ATOM	6649	CA	THR	C	6	-15.634	48.121	56.359	1.00	30.97	C
ATOM	6650	C	THR	C	6	-15.540	48.315	54.842	1.00	29.45	C
ATOM	6651	O	THR	C	6	-16.184	49.194	54.278	1.00	28.89	O
ATOM	6652	CB	THR	C	6	-17.018	47.527	56.709	1.00	32.32	C
ATOM	6653	OG1	THR	C	6	-17.130	47.376	58.131	1.00	33.84	O
ATOM	6654	CG2	THR	C	6	-17.195	46.168	56.047	1.00	32.86	C
ATOM	6655	N	PRO	C	7	-14.733	47.488	54.164	1.00	29.74	N
ATOM	6656	CA	PRO	C	7	-14.544	47.565	52.710	1.00	29.17	C
ATOM	6657	C	PRO	C	7	-15.823	47.346	51.897	1.00	29.19	C
ATOM	6658	O	PRO	C	7	-16.710	46.611	52.319	1.00	28.72	O
ATOM	6659	CB	PRO	C	7	-13.520	46.464	52.437	1.00	29.99	C
ATOM	6660	CG	PRO	C	7	-12.793	46.317	53.746	1.00	29.09	C
ATOM	6661	CD	PRO	C	7	-13.903	46.418	54.743	1.00	29.92	C
ATOM	6662	N	LYS	C	8	-15.911	47.983	50.730	1.00	28.99	N
ATOM	6663	CA	LYS	C	8	-17.072	47.809	49.853	1.00	28.53	C
ATOM	6664	C	LYS	C	8	-16.913	46.454	49.169	1.00	27.86	C
ATOM	6665	O	LYS	C	8	-15.810	45.916	49.084	1.00	26.53	O
ATOM	6666	CB	LYS	C	8	-17.124	48.888	48.765	1.00	26.22	C
ATOM	6667	CG	LYS	C	8	-17.362	50.310	49.240	1.00	27.27	C
ATOM	6668	CD	LYS	C	8	-17.257	51.280	48.061	1.00	27.44	C
ATOM	6669	CE	LYS	C	8	-17.323	52.726	48.518	1.00	29.54	C
ATOM	6670	NZ	LYS	C	8	-17.049	53.682	47.410	1.00	28.29	N
ATOM	6671	N	SER	C	9	-18.010	45.903	48.673	1.00	27.71	N
ATOM	6672	CA	SER	C	9	-17.940	44.620	47.993	1.00	28.50	C
ATOM	6673	C	SER	C	9	-17.452	44.866	46.572	1.00	27.41	C
ATOM	6674	O	SER	C	9	-17.490	45.990	46.083	1.00	25.19	O
ATOM	6675	CB	SER	C	9	-19.319	43.969	47.937	1.00	30.13	C
ATOM	6676	OG	SER	C	9	-20.168	44.687	47.053	1.00	30.52	O
ATOM	6677	N	ALA	C	10	-16.998	43.806	45.913	1.00	28.55	N
ATOM	6678	CA	ALA	C	10	-16.527	43.908	44.540	1.00	30.02	C
ATOM	6679	C	ALA	C	10	-17.681	44.373	43.645	1.00	30.72	C



ATOM	6680	O	ALA	C	10	-17.475	45.132	42.696	1.00	31.08	O
ATOM	6681	CB	ALA	C	10	-16.005	42.557	44.067	1.00	29.25	C
ATOM	6682	N	GLU	C	11	-18.891	43.914	43.957	1.00	31.21	N
ATOM	6683	CA	GLU	C	11	-20.076	44.286	43.190	1.00	32.41	C
ATOM	6684	C	GLU	C	11	-20.328	45.788	43.252	1.00	31.01	C
ATOM	6685	O	GLU	C	11	-20.561	46.423	42.226	1.00	30.67	O
ATOM	6686	CB	GLU	C	11	-21.315	43.552	43.713	1.00	35.26	C
ATOM	6687	CG	GLU	C	11	-21.312	42.036	43.521	1.00	39.51	C
ATOM	6688	CD	GLU	C	11	-20.287	41.313	44.390	1.00	42.47	C
ATOM	6689	OE1	GLU	C	11	-20.184	41.624	45.597	1.00	44.31	O
ATOM	6690	OE2	GLU	C	11	-19.594	40.416	43.866	1.00	44.39	O
ATOM	6691	N	GLN	C	12	-20.293	46.352	44.456	1.00	30.79	N
ATOM	6692	CA	GLN	C	12	-20.519	47.786	44.625	1.00	32.00	C
ATOM	6693	C	GLN	C	12	-19.509	48.585	43.807	1.00	31.44	C
ATOM	6694	O	GLN	C	12	-19.865	49.567	43.152	1.00	31.97	O
ATOM	6695	CB	GLN	C	12	-20.382	48.191	46.093	1.00	34.71	C
ATOM	6696	CG	GLN	C	12	-21.410	47.593	47.035	1.00	37.78	C
ATOM	6697	CD	GLN	C	12	-21.115	47.944	48.483	1.00	39.46	C
ATOM	6698	OE1	GLN	C	12	-21.089	49.119	48.856	1.00	39.19	O
ATOM	6699	NE2	GLN	C	12	-20.882	46.923	49.304	1.00	40.82	N
ATOM	6700	N	ILE	C	13	-18.247	48.161	43.860	1.00	29.29	N
ATOM	6701	CA	ILE	C	13	-17.175	48.834	43.130	1.00	29.30	C
ATOM	6702	C	ILE	C	13	-17.426	48.747	41.628	1.00	28.53	C
ATOM	6703	O	ILE	C	13	-17.380	49.756	40.921	1.00	27.84	O
ATOM	6704	CB	ILE	C	13	-15.795	48.204	43.460	1.00	29.95	C
ATOM	6705	CG1	ILE	C	13	-15.468	48.417	44.941	1.00	28.47	C
ATOM	6706	CG2	ILE	C	13	-14.715	48.824	42.591	1.00	28.51	C
ATOM	6707	CD1	ILE	C	13	-14.201	47.737	45.396	1.00	30.77	C
ATOM	6708	N	GLN	C	14	-17.702	47.540	41.146	1.00	28.18	N
ATOM	6709	CA	GLN	C	14	-17.974	47.333	39.729	1.00	30.89	C
ATOM	6710	C	GLN	C	14	-19.130	48.224	39.262	1.00	32.40	C
ATOM	6711	O	GLN	C	14	-19.077	48.806	38.178	1.00	30.54	O
ATOM	6712	CB	GLN	C	14	-18.320	45.869	39.463	1.00	30.83	C
ATOM	6713	CG	GLN	C	14	-18.477	45.546	37.994	1.00	29.66	C
ATOM	6714	CD	GLN	C	14	-17.205	45.808	37.209	1.00	31.82	C
ATOM	6715	OE1	GLN	C	14	-16.152	45.240	37.505	1.00	31.31	O
ATOM	6716	NE2	GLN	C	14	-17.294	46.673	36.204	1.00	30.96	N
ATOM	6717	N	GLN	C	15	-20.171	48.324	40.084	1.00	33.94	N
ATOM	6718	CA	GLN	C	15	-21.319	49.154	39.749	1.00	36.69	C
ATOM	6719	C	GLN	C	15	-20.908	50.609	39.580	1.00	36.48	C
ATOM	6720	O	GLN	C	15	-21.369	51.284	38.661	1.00	36.54	O
ATOM	6721	CB	GLN	C	15	-22.389	49.062	40.835	1.00	39.78	C
ATOM	6722	CG	GLN	C	15	-23.476	50.106	40.679	1.00	43.92	C
ATOM	6723	CD	GLN	C	15	-24.489	50.047	41.792	1.00	47.87	C
ATOM	6724	OE1	GLN	C	15	-25.211	49.059	41.935	1.00	49.87	O
ATOM	6725	NE2	GLN	C	15	-24.546	51.104	42.598	1.00	49.17	N
ATOM	6726	N	GLU	C	16	-20.053	51.096	40.478	1.00	36.37	N
ATOM	6727	CA	GLU	C	16	-19.594	52.477	40.396	1.00	35.79	C
ATOM	6728	C	GLU	C	16	-18.859	52.678	39.075	1.00	33.88	C
ATOM	6729	O	GLU	C	16	-19.053	53.681	38.390	1.00	34.61	O
ATOM	6730	CB	GLU	C	16	-18.659	52.807	41.568	1.00	37.27	C
ATOM	6731	CG	GLU	C	16	-19.342	52.871	42.927	1.00	41.97	C
ATOM	6732	CD	GLU	C	16	-18.359	53.110	44.072	1.00	44.79	C
ATOM	6733	OE1	GLU	C	16	-17.565	54.072	43.999	1.00	46.74	O
ATOM	6734	OE2	GLU	C	16	-18.383	52.337	45.051	1.00	45.77	O
ATOM	6735	N	TRP	C	17	-18.021	51.710	38.718	1.00	32.46	N
ATOM	6736	CA	TRP	C	17	-17.250	51.785	37.483	1.00	32.04	C
ATOM	6737	C	TRP	C	17	-18.136	51.744	36.249	1.00	32.54	C
ATOM	6738	O	TRP	C	17	-17.786	52.289	35.203	1.00	30.70	O
ATOM	6739	CB	TRP	C	17	-16.248	50.636	37.403	1.00	30.25	C
ATOM	6740	CG	TRP	C	17	-15.159	50.694	38.425	1.00	30.85	C
ATOM	6741	CD1	TRP	C	17	-14.889	51.721	39.289	1.00	30.04	C
ATOM	6742	CD2	TRP	C	17	-14.166	49.695	38.666	1.00	28.35	C
ATOM	6743	NE1	TRP	C	17	-13.786	51.418	40.050	1.00	30.03	N
ATOM	6744	CE2	TRP	C	17	-13.323	50.181	39.688	1.00	27.76	C
ATOM	6745	CE3	TRP	C	17	-13.904	48.433	38.114	1.00	28.19	C
ATOM	6746	CZ2	TRP	C	17	-12.237	49.452	40.170	1.00	27.34	C
ATOM	6747	CZ3	TRP	C	17	-12.823	47.708	38.595	1.00	28.42	C
ATOM	6748	CH2	TRP	C	17	-12.003	48.221	39.614	1.00	26.56	C
ATOM	6749	N	ASP	C	18	-19.287	51.098	36.374	1.00	32.82	N
ATOM	6750	CA	ASP	C	18	-20.200	50.987	35.250	1.00	33.99	C
ATOM	6751	C	ASP	C	18	-21.194	52.136	35.115	1.00	34.16	C
ATOM	6752	O	ASP	C	18	-21.612	52.464	34.007	1.00	34.32	O
ATOM	6753	CB	ASP	C	18	-20.979	49.675	35.338	1.00	33.55	C
ATOM	6754	CG	ASP	C	18	-20.078	48.465	35.326	1.00	36.17	C
ATOM	6755	OD1	ASP	C	18	-18.939	48.576	34.821	1.00	38.03	O
ATOM	6756	OD2	ASP	C	18	-20.514	47.398	35.810	1.00	36.37	O
ATOM	6757	N	THR	C	19	-21.562	52.751	36.235	1.00	33.92	N
ATOM	6758	CA	THR	C	19	-22.554	53.818	36.217	1.00	33.74	C
ATOM	6759	C	THR	C	19	-22.072	55.238	36.460	1.00	33.66	C



ATOM	6760	O	THR	C	19	-22.710	56.184	36.008	1.00	33.98	O
ATOM	6761	CB	THR	C	19	-23.663	53.529	37.233	1.00	35.15	C
ATOM	6762	OG1	THR	C	19	-23.091	53.430	38.543	1.00	36.05	O
ATOM	6763	CG2	THR	C	19	-24.364	52.219	36.894	1.00	35.43	C
ATOM	6764	N	ASN	C	20	-20.970	55.407	37.180	1.00	33.00	N
ATOM	6765	CA	ASN	C	20	-20.483	56.756	37.438	1.00	32.33	C
ATOM	6766	C	ASN	C	20	-19.802	57.333	36.196	1.00	31.17	C
ATOM	6767	O	ASN	C	20	-18.908	56.709	35.627	1.00	30.65	O
ATOM	6768	CB	ASN	C	20	-19.500	56.761	38.607	1.00	32.54	C
ATOM	6769	CG	ASN	C	20	-19.266	58.157	39.154	1.00	33.63	C
ATOM	6770	OD1	ASN	C	20	-19.192	59.129	38.397	1.00	32.24	O
ATOM	6771	ND2	ASN	C	20	-19.139	58.263	40.471	1.00	32.85	N
ATOM	6772	N	PRO	C	21	-20.233	58.526	35.750	1.00	30.27	N
ATOM	6773	CA	PRO	C	21	-19.673	59.204	34.573	1.00	29.50	C
ATOM	6774	C	PRO	C	21	-18.180	59.495	34.732	1.00	28.77	C
ATOM	6775	O	PRO	C	21	-17.459	59.676	33.748	1.00	28.26	O
ATOM	6776	CB	PRO	C	21	-20.496	60.489	34.485	1.00	28.84	C
ATOM	6777	CG	PRO	C	21	-21.809	60.078	35.039	1.00	31.89	C
ATOM	6778	CD	PRO	C	21	-21.420	59.247	36.244	1.00	31.38	C
ATOM	6779	N	ARG	C	22	-17.727	59.543	35.980	1.00	27.90	N
ATOM	6780	CA	ARG	C	22	-16.323	59.802	36.276	1.00	26.19	C
ATOM	6781	C	ARG	C	22	-15.451	58.796	35.543	1.00	25.62	C
ATOM	6782	O	ARG	C	22	-14.412	59.144	34.996	1.00	26.25	O
ATOM	6783	CB	ARG	C	22	-16.072	59.688	37.784	1.00	24.98	C
ATOM	6784	CG	ARG	C	22	-14.605	59.775	38.188	1.00	25.20	C
ATOM	6785	CD	ARG	C	22	-14.036	61.163	37.939	1.00	22.41	C
ATOM	6786	NE	ARG	C	22	-12.625	61.252	38.301	1.00	22.74	N
ATOM	6787	CZ	ARG	C	22	-11.624	60.790	37.555	1.00	24.34	C
ATOM	6788	NH1	ARG	C	22	-11.870	60.197	36.388	1.00	20.56	N
ATOM	6789	NH2	ARG	C	22	-10.372	60.928	37.974	1.00	20.67	N
ATOM	6790	N	TRP	C	23	-15.902	57.549	35.517	1.00	26.56	N
ATOM	6791	CA	TRP	C	23	-15.163	56.462	34.884	1.00	27.30	C
ATOM	6792	C	TRP	C	23	-15.564	56.184	33.441	1.00	28.55	C
ATOM	6793	O	TRP	C	23	-15.191	55.159	32.875	1.00	27.29	O
ATOM	6794	CB	TRP	C	23	-15.341	55.204	35.722	1.00	25.36	C
ATOM	6795	CG	TRP	C	23	-15.129	55.477	37.171	1.00	25.34	C
ATOM	6796	CD1	TRP	C	23	-16.012	55.266	38.182	1.00	25.29	C
ATOM	6797	CD2	TRP	C	23	-13.954	56.029	37.772	1.00	25.33	C
ATOM	6798	NE1	TRP	C	23	-15.463	55.649	39.380	1.00	24.36	N
ATOM	6799	CE2	TRP	C	23	-14.198	56.122	39.155	1.00	25.75	C
ATOM	6800	CE3	TRP	C	23	-12.717	56.452	37.274	1.00	25.19	C
ATOM	6801	CZ2	TRP	C	23	-13.246	56.623	40.052	1.00	26.72	C
ATOM	6802	CZ3	TRP	C	23	-11.773	56.950	38.167	1.00	25.11	C
ATOM	6803	CH2	TRP	C	23	-12.044	57.030	39.536	1.00	23.85	C
ATOM	6804	N	LYS	C	24	-16.315	57.106	32.851	1.00	31.01	N
ATOM	6805	CA	LYS	C	24	-16.781	56.966	31.476	1.00	33.59	C
ATOM	6806	C	LYS	C	24	-15.706	56.510	30.482	1.00	33.64	C
ATOM	6807	O	LYS	C	24	-15.917	55.562	29.724	1.00	33.50	O
ATOM	6808	CB	LYS	C	24	-17.380	58.294	30.996	1.00	35.49	C
ATOM	6809	CG	LYS	C	24	-17.918	58.247	29.576	1.00	40.57	C
ATOM	6810	CD	LYS	C	24	-18.337	59.626	29.074	1.00	43.99	C
ATOM	6811	CE	LYS	C	24	-17.140	60.564	28.985	1.00	47.04	C
ATOM	6812	NZ	LYS	C	24	-17.451	61.850	28.299	1.00	48.16	N
ATOM	6813	N	ASP	C	25	-14.558	57.181	30.483	1.00	32.97	N
ATOM	6814	CA	ASP	C	25	-13.482	56.849	29.548	1.00	34.01	C
ATOM	6815	C	ASP	C	25	-12.269	56.211	30.219	1.00	32.95	C
ATOM	6816	O	ASP	C	25	-11.160	56.254	29.686	1.00	31.85	O
ATOM	6817	CB	ASP	C	25	-13.031	58.115	28.815	1.00	35.54	C
ATOM	6818	CG	ASP	C	25	-14.180	58.849	28.155	1.00	36.10	C
ATOM	6819	OD1	ASP	C	25	-14.827	58.254	27.267	1.00	38.03	O
ATOM	6820	OD2	ASP	C	25	-14.432	60.017	28.525	1.00	34.10	O
ATOM	6821	N	VAL	C	26	-12.481	55.612	31.383	1.00	31.47	N
ATOM	6822	CA	VAL	C	26	-11.389	55.000	32.114	1.00	29.49	C
ATOM	6823	C	VAL	C	26	-11.285	53.493	31.922	1.00	28.54	C
ATOM	6824	O	VAL	C	26	-12.213	52.748	32.220	1.00	28.81	O
ATOM	6825	CB	VAL	C	26	-11.513	55.311	33.615	1.00	29.88	C
ATOM	6826	CG1	VAL	C	26	-10.358	54.679	34.381	1.00	27.59	C
ATOM	6827	CG2	VAL	C	26	-11.534	56.825	33.823	1.00	28.43	C
ATOM	6828	N	THR	C	27	-10.138	53.053	31.418	1.00	27.51	N
ATOM	6829	CA	THR	C	27	-9.886	51.639	31.209	1.00	27.49	C
ATOM	6830	C	THR	C	27	-9.081	51.098	32.386	1.00	27.32	C
ATOM	6831	O	THR	C	27	-8.071	51.678	32.774	1.00	26.94	O
ATOM	6832	CB	THR	C	27	-9.068	51.393	29.925	1.00	28.06	C
ATOM	6833	OG1	THR	C	27	-9.843	51.757	28.775	1.00	29.72	O
ATOM	6834	CG2	THR	C	27	-8.661	49.927	29.827	1.00	27.47	C
ATOM	6835	N	ARG	C	28	-9.542	49.987	32.952	1.00	27.24	N
ATOM	6836	CA	ARG	C	28	-8.871	49.332	34.070	1.00	24.05	C
ATOM	6837	C	ARG	C	28	-8.562	47.894	33.638	1.00	23.78	C
ATOM	6838	O	ARG	C	28	-9.475	47.108	33.395	1.00	24.37	O
ATOM	6839	CB	ARG	C	28	-9.783	49.322	35.309	1.00	23.24	C



ATOM	6840	CG	ARG	C	28	-9.987	50.688	36.005	1.00	23.30	C
ATOM	6841	CD	ARG	C	28	-10.866	50.534	37.259	1.00	20.01	C
ATOM	6842	NE	ARG	C	28	-10.887	51.701	38.153	1.00	18.72	N
ATOM	6843	CZ	ARG	C	28	-11.649	52.782	37.989	1.00	21.11	C
ATOM	6844	NH1	ARG	C	28	-12.474	52.876	36.954	1.00	22.02	N
ATOM	6845	NH2	ARG	C	28	-11.598	53.773	38.870	1.00	19.55	N
ATOM	6846	N	THR	C	29	-7.283	47.542	33.532	1.00	23.98	N
ATOM	6847	CA	THR	C	29	-6.925	46.184	33.131	1.00	23.10	C
ATOM	6848	C	THR	C	29	-6.989	45.138	34.256	1.00	22.81	C
ATOM	6849	O	THR	C	29	-6.661	43.976	34.040	1.00	23.37	O
ATOM	6850	CB	THR	C	29	-5.527	46.139	32.459	1.00	23.81	C
ATOM	6851	OG1	THR	C	29	-4.547	46.719	33.325	1.00	22.49	O
ATOM	6852	CG2	THR	C	29	-5.551	46.904	31.143	1.00	23.18	C
ATOM	6853	N	TYR	C	30	-7.409	45.550	35.451	1.00	22.91	N
ATOM	6854	CA	TYR	C	30	-7.556	44.631	36.584	1.00	21.15	C
ATOM	6855	C	TYR	C	30	-9.033	44.670	36.960	1.00	21.73	C
ATOM	6856	O	TYR	C	30	-9.770	45.506	36.439	1.00	21.51	O
ATOM	6857	CB	TYR	C	30	-6.673	45.071	37.764	1.00	20.80	C
ATOM	6858	CG	TYR	C	30	-6.790	46.535	38.117	1.00	19.62	C
ATOM	6859	CD1	TYR	C	30	-7.876	47.013	38.846	1.00	19.90	C
ATOM	6860	CD2	TYR	C	30	-5.841	47.450	37.673	1.00	19.65	C
ATOM	6861	CE1	TYR	C	30	-8.020	48.373	39.122	1.00	20.14	C
ATOM	6862	CE2	TYR	C	30	-5.973	48.810	37.939	1.00	22.09	C
ATOM	6863	CZ	TYR	C	30	-7.068	49.265	38.663	1.00	20.90	C
ATOM	6864	OH	TYR	C	30	-7.220	50.610	38.904	1.00	17.95	O
ATOM	6865	N	SER	C	31	-9.475	43.781	37.847	1.00	22.24	N
ATOM	6866	CA	SER	C	31	-10.892	43.745	38.234	1.00	22.24	C
ATOM	6867	C	SER	C	31	-11.183	44.355	39.597	1.00	21.29	C
ATOM	6868	O	SER	C	31	-10.271	44.705	40.344	1.00	21.88	O
ATOM	6869	CB	SER	C	31	-11.409	42.303	38.231	1.00	21.91	C
ATOM	6870	OG	SER	C	31	-10.799	41.559	39.265	1.00	23.49	C
ATOM	6871	N	ALA	C	32	-12.469	44.476	39.913	1.00	20.49	N
ATOM	6872	CA	ALA	C	32	-12.897	45.031	41.192	1.00	20.98	C
ATOM	6873	C	ALA	C	32	-12.487	44.072	42.297	1.00	22.48	C
ATOM	6874	O	ALA	C	32	-12.167	44.484	43.409	1.00	22.96	O
ATOM	6875	CB	ALA	C	32	-14.415	45.225	41.202	1.00	21.49	C
ATOM	6876	N	GLU	C	33	-12.511	42.784	41.977	1.00	23.99	N
ATOM	6877	CA	GLU	C	33	-12.136	41.741	42.923	1.00	26.03	C
ATOM	6878	C	GLU	C	33	-10.669	41.917	43.318	1.00	25.21	C
ATOM	6879	O	GLU	C	33	-10.307	41.711	44.475	1.00	22.97	O
ATOM	6880	CB	GLU	C	33	-12.345	40.356	42.294	1.00	29.95	C
ATOM	6881	CG	GLU	C	33	-13.788	40.057	41.877	1.00	37.95	C
ATOM	6882	CD	GLU	C	33	-14.335	41.054	40.849	1.00	42.82	C
ATOM	6883	OE1	GLU	C	33	-13.792	41.127	39.720	1.00	41.53	O
ATOM	6884	OE2	GLU	C	33	-15.310	41.769	41.177	1.00	46.29	O
ATOM	6885	N	ASP	C	34	-9.827	42.288	42.353	1.00	24.24	N
ATOM	6886	CA	ASP	C	34	-8.411	42.504	42.637	1.00	24.96	C
ATOM	6887	C	ASP	C	34	-8.251	43.652	43.626	1.00	24.22	C
ATOM	6888	O	ASP	C	34	-7.393	43.607	44.501	1.00	25.85	O
ATOM	6889	CB	ASP	C	34	-7.633	42.845	41.365	1.00	25.79	C
ATOM	6890	CG	ASP	C	34	-7.558	41.689	40.396	1.00	26.76	C
ATOM	6891	OD1	ASP	C	34	-7.475	40.531	40.861	1.00	26.59	O
ATOM	6892	OD2	ASP	C	34	-7.564	41.942	39.170	1.00	26.77	O
ATOM	6893	N	VAL	C	35	-9.077	44.683	43.481	1.00	21.98	N
ATOM	6894	CA	VAL	C	35	-9.013	45.836	44.370	1.00	21.49	C
ATOM	6895	C	VAL	C	35	-9.388	45.415	45.782	1.00	21.70	C
ATOM	6896	O	VAL	C	35	-8.637	45.648	46.737	1.00	21.15	O
ATOM	6897	CB	VAL	C	35	-9.972	46.961	43.912	1.00	18.02	C
ATOM	6898	CG1	VAL	C	35	-9.954	48.102	44.911	1.00	16.06	C
ATOM	6899	CG2	VAL	C	35	-9.563	47.458	42.541	1.00	16.48	C
ATOM	6900	N	VAL	C	36	-10.557	44.796	45.907	1.00	21.04	N
ATOM	6901	CA	VAL	C	36	-11.039	44.334	47.198	1.00	20.56	C
ATOM	6902	C	VAL	C	36	-10.003	43.450	47.894	1.00	19.70	C
ATOM	6903	O	VAL	C	36	-9.800	43.559	49.097	1.00	20.70	O
ATOM	6904	CB	VAL	C	36	-12.360	43.558	47.041	1.00	19.09	C
ATOM	6905	CG1	VAL	C	36	-12.720	42.858	48.340	1.00	20.19	C
ATOM	6906	CG2	VAL	C	36	-13.465	44.517	46.651	1.00	18.47	C
ATOM	6907	N	ALA	C	37	-9.341	42.594	47.127	1.00	18.98	N
ATOM	6908	CA	ALA	C	37	-8.330	41.686	47.662	1.00	20.56	C
ATOM	6909	C	ALA	C	37	-7.148	42.397	48.321	1.00	21.63	C
ATOM	6910	O	ALA	C	37	-6.434	41.806	49.138	1.00	21.97	O
ATOM	6911	CB	ALA	C	37	-7.820	40.771	46.545	1.00	21.28	C
ATOM	6912	N	LEU	C	38	-6.947	43.665	47.975	1.00	20.92	N
ATOM	6913	CA	LEU	C	38	-5.833	44.434	48.515	1.00	20.31	C
ATOM	6914	C	LEU	C	38	-6.218	45.391	49.648	1.00	21.15	C
ATOM	6915	O	LEU	C	38	-5.349	46.006	50.262	1.00	20.32	O
ATOM	6916	CB	LEU	C	38	-5.161	45.228	47.381	1.00	16.75	C
ATOM	6917	CG	LEU	C	38	-4.536	44.422	46.229	1.00	17.54	C
ATOM	6918	CD1	LEU	C	38	-4.033	45.367	45.135	1.00	15.42	C
ATOM	6919	CD2	LEU	C	38	-3.388	43.575	46.752	1.00	17.07	C



ATOM	6920	N	GLN	C	39	-7.508	45.503	49.942	1.00	21.75	N
ATOM	6921	CA	GLN	C	39	-7.963	46.433	50.974	1.00	22.60	C
ATOM	6922	C	GLN	C	39	-7.957	45.938	52.424	1.00	23.26	C
ATOM	6923	O	GLN	C	39	-8.336	46.678	53.331	1.00	22.58	O
ATOM	6924	CB	GLN	C	39	-9.366	46.936	50.623	1.00	22.58	C
ATOM	6925	CG	GLN	C	39	-9.441	47.688	49.293	1.00	25.87	C
ATOM	6926	CD	GLN	C	39	-10.837	48.209	48.984	1.00	25.93	C
ATOM	6927	OE1	GLN	C	39	-11.822	47.466	49.054	1.00	28.42	O
ATOM	6928	NE2	GLN	C	39	-10.927	49.487	48.634	1.00	20.55	N
ATOM	6929	N	GLY	C	40	-7.517	44.708	52.657	1.00	23.87	N
ATOM	6930	CA	GLY	C	40	-7.531	44.207	54.019	1.00	23.54	C
ATOM	6931	C	GLY	C	40	-8.977	44.185	54.489	1.00	23.92	C
ATOM	6932	O	GLY	C	40	-9.877	43.970	53.681	1.00	23.68	O
ATOM	6933	N	SER	C	41	-9.216	44.419	55.776	1.00	23.63	N
ATOM	6934	CA	SER	C	41	-10.583	44.407	56.285	1.00	24.31	C
ATOM	6935	C	SER	C	41	-11.005	45.777	56.788	1.00	23.87	C
ATOM	6936	O	SER	C	41	-12.070	45.938	57.383	1.00	21.87	O
ATOM	6937	CB	SER	C	41	-10.736	43.352	57.395	1.00	25.18	C
ATOM	6938	OG	SER	C	41	-9.752	43.488	58.396	1.00	23.50	O
ATOM	6939	N	VAL	C	42	-10.160	46.766	56.531	1.00	24.01	N
ATOM	6940	CA	VAL	C	42	-10.444	48.130	56.940	1.00	23.97	C
ATOM	6941	C	VAL	C	42	-9.896	49.113	55.925	1.00	23.60	C
ATOM	6942	O	VAL	C	42	-8.722	49.065	55.566	1.00	24.67	O
ATOM	6943	CB	VAL	C	42	-9.828	48.461	58.312	1.00	23.93	C
ATOM	6944	CG1	VAL	C	42	-10.035	49.934	58.624	1.00	22.83	C
ATOM	6945	CG2	VAL	C	42	-10.474	47.608	59.394	1.00	24.51	C
ATOM	6946	N	VAL	C	43	-10.756	50.003	55.454	1.00	22.43	N
ATOM	6947	CA	VAL	C	43	-10.333	51.000	54.493	1.00	21.51	C
ATOM	6948	C	VAL	C	43	-10.393	52.366	55.149	1.00	21.10	C
ATOM	6949	O	VAL	C	43	-11.449	52.810	55.599	1.00	20.09	O
ATOM	6950	CB	VAL	C	43	-11.230	50.996	53.242	1.00	22.88	C
ATOM	6951	CG1	VAL	C	43	-10.889	52.190	52.357	1.00	21.69	C
ATOM	6952	CG2	VAL	C	43	-11.039	49.693	52.470	1.00	22.37	C
ATOM	6953	N	GLU	C	44	-9.244	53.022	55.226	1.00	20.76	N
ATOM	6954	CA	GLU	C	44	-9.186	54.347	55.815	1.00	20.60	C
ATOM	6955	C	GLU	C	44	-9.852	55.326	54.866	1.00	21.65	C
ATOM	6956	O	GLU	C	44	-9.753	55.196	53.641	1.00	22.19	O
ATOM	6957	CB	GLU	C	44	-7.736	54.778	56.042	1.00	18.62	C
ATOM	6958	CG	GLU	C	44	-7.082	54.195	57.271	1.00	17.73	C
ATOM	6959	CD	GLU	C	44	-5.692	54.759	57.487	1.00	20.16	C
ATOM	6960	OE1	GLU	C	44	-4.766	54.368	56.743	1.00	17.93	O
ATOM	6961	OE2	GLU	C	44	-5.530	55.611	58.392	1.00	19.69	O
ATOM	6962	N	GLU	C	45	-10.541	56.300	55.439	1.00	21.73	N
ATOM	6963	CA	GLU	C	45	-11.202	57.324	54.656	1.00	21.55	C
ATOM	6964	C	GLU	C	45	-10.177	58.421	54.457	1.00	20.99	C
ATOM	6965	O	GLU	C	45	-9.441	58.767	55.380	1.00	22.66	O
ATOM	6966	CB	GLU	C	45	-12.419	57.864	55.414	1.00	24.10	C
ATOM	6967	CG	GLU	C	45	-13.087	59.100	54.811	1.00	27.32	C
ATOM	6968	CD	GLU	C	45	-13.639	58.877	53.415	1.00	30.39	C
ATOM	6969	OE1	GLU	C	45	-13.724	57.711	52.975	1.00	33.39	O
ATOM	6970	OE2	GLU	C	45	-14.001	59.876	52.756	1.00	32.13	O
ATOM	6971	N	HIS	C	46	-10.109	58.949	53.244	1.00	19.28	N
ATOM	6972	CA	HIS	C	46	-9.177	60.020	52.938	1.00	18.24	C
ATOM	6973	C	HIS	C	46	-10.006	61.216	52.486	1.00	17.35	C
ATOM	6974	O	HIS	C	46	-10.082	61.536	51.299	1.00	16.19	O
ATOM	6975	CB	HIS	C	46	-8.206	59.567	51.842	1.00	17.71	C
ATOM	6976	CG	HIS	C	46	-7.366	58.389	52.236	1.00	16.79	C
ATOM	6977	ND1	HIS	C	46	-6.485	58.426	53.296	1.00	15.80	N
ATOM	6978	CD2	HIS	C	46	-7.269	57.145	51.709	1.00	16.54	C
ATOM	6979	CE1	HIS	C	46	-5.879	57.256	53.402	1.00	17.49	C
ATOM	6980	NE2	HIS	C	46	-6.337	56.461	52.451	1.00	15.35	N
ATOM	6981	N	THR	C	47	-10.641	61.853	53.462	1.00	17.18	N
ATOM	6982	CA	THR	C	47	-11.506	63.009	53.238	1.00	18.03	C
ATOM	6983	C	THR	C	47	-10.991	64.057	52.245	1.00	17.01	C
ATOM	6984	O	THR	C	47	-11.633	64.322	51.228	1.00	16.25	O
ATOM	6985	CB	THR	C	47	-11.816	63.712	54.577	1.00	17.53	C
ATOM	6986	OG1	THR	C	47	-12.339	62.754	55.504	1.00	15.65	O
ATOM	6987	CG2	THR	C	47	-12.838	64.826	54.375	1.00	18.80	C
ATOM	6988	N	LEU	C	48	-9.842	64.655	52.534	1.00	15.22	N
ATOM	6989	CA	LEU	C	48	-9.300	65.679	51.647	1.00	16.94	C
ATOM	6990	C	LEU	C	48	-9.014	65.181	50.225	1.00	16.89	C
ATOM	6991	O	LEU	C	48	-9.296	65.881	49.250	1.00	17.36	O
ATOM	6992	CB	LEU	C	48	-8.041	66.295	52.261	1.00	16.98	C
ATOM	6993	CG	LEU	C	48	-8.250	66.924	53.648	1.00	20.47	C
ATOM	6994	CD1	LEU	C	48	-7.006	67.701	54.060	1.00	19.72	C
ATOM	6995	CD2	LEU	C	48	-9.456	67.860	53.619	1.00	19.69	C
ATOM	6996	N	ALA	C	49	-8.468	63.975	50.101	1.00	17.63	N
ATOM	6997	CA	ALA	C	49	-8.170	63.422	48.781	1.00	18.19	C
ATOM	6998	C	ALA	C	49	-9.459	63.202	47.981	1.00	18.91	C
ATOM	6999	O	ALA	C	49	-9.489	63.419	46.766	1.00	18.21	O



ATOM	7000	CB	ALA	C	49	-7.409	62.115	48.922	1.00	15.64	
ATOM	7001	N	ARG	C	50	-10.523	62.782	48.665	1.00	19.33	N
ATOM	7002	CA	ARG	C	50	-11.801	62.537	48.002	1.00	21.69	C
ATOM	7003	C	ARG	C	50	-12.427	63.840	47.534	1.00	21.90	C
ATOM	7004	O	ARG	C	50	-12.743	64.007	46.358	1.00	22.77	O
ATOM	7005	CB	ARG	C	50	-12.781	61.830	48.942	1.00	20.71	C
ATOM	7006	CG	ARG	C	50	-14.142	61.545	48.294	1.00	23.97	C
ATOM	7007	CD	ARG	C	50	-15.116	60.944	49.292	1.00	22.58	C
ATOM	7008	NE	ARG	C	50	-14.550	59.762	49.933	1.00	22.72	N
ATOM	7009	CZ	ARG	C	50	-14.186	58.666	49.276	1.00	22.51	C
ATOM	7010	NH1	ARG	C	50	-14.335	58.606	47.959	1.00	20.89	N
ATOM	7011	NH2	ARG	C	50	-13.671	57.633	49.933	1.00	20.90	N
ATOM	7012	N	ARG	C	51	-12.610	64.751	48.480	1.00	21.52	N
ATOM	7013	CA	ARG	C	51	-13.196	66.051	48.209	1.00	20.90	C
ATOM	7014	C	ARG	C	51	-12.377	66.752	47.132	1.00	19.94	C
ATOM	7015	O	ARG	C	51	-12.926	67.250	46.155	1.00	22.47	O
ATOM	7016	CB	ARG	C	51	-13.209	66.879	49.498	1.00	21.10	C
ATOM	7017	CG	ARG	C	51	-13.991	68.178	49.439	1.00	22.23	C
ATOM	7018	CD	ARG	C	51	-13.962	68.852	50.811	1.00	22.95	C
ATOM	7019	NE	ARG	C	51	-14.892	69.972	50.946	1.00	24.08	N
ATOM	7020	CZ	ARG	C	51	-14.705	71.189	50.436	1.00	25.84	C
ATOM	7021	NH1	ARG	C	51	-13.614	71.475	49.739	1.00	26.33	N
ATOM	7022	NH2	ARG	C	51	-15.611	72.133	50.642	1.00	26.65	N
ATOM	7023	N	GLY	C	52	-11.063	66.781	47.312	1.00	18.64	N
ATOM	7024	CA	GLY	C	52	-10.201	67.424	46.339	1.00	18.29	C
ATOM	7025	C	GLY	C	52	-10.335	66.874	44.926	1.00	17.23	C
ATOM	7026	O	GLY	C	52	-10.389	67.640	43.967	1.00	16.45	O
ATOM	7027	N	ALA	C	53	-10.392	65.553	44.787	1.00	16.03	N
ATOM	7028	CA	ALA	C	53	-10.516	64.949	43.466	1.00	19.46	C
ATOM	7029	C	ALA	C	53	-11.881	65.261	42.857	1.00	21.33	C
ATOM	7030	O	ALA	C	53	-11.984	65.530	41.664	1.00	23.70	O
ATOM	7031	CB	ALA	C	53	-10.307	63.445	43.548	1.00	17.19	C
ATOM	7032	N	GLU	C	54	-12.928	65.225	43.675	1.00	21.38	N
ATOM	7033	CA	GLU	C	54	-14.265	65.533	43.183	1.00	23.70	C
ATOM	7034	C	GLU	C	54	-14.336	66.988	42.714	1.00	24.09	C
ATOM	7035	O	GLU	C	54	-14.819	67.277	41.615	1.00	23.84	O
ATOM	7036	CB	GLU	C	54	-15.310	65.274	44.278	1.00	22.28	C
ATOM	7037	CG	GLU	C	54	-15.702	63.811	44.398	1.00	24.92	C
ATOM	7038	CD	GLU	C	54	-16.709	63.550	45.497	1.00	25.35	C
ATOM	7039	OE1	GLU	C	54	-17.501	64.459	45.815	1.00	29.90	O
ATOM	7040	OE2	GLU	C	54	-16.722	62.425	46.033	1.00	26.04	O
ATOM	7041	N	VAL	C	55	-13.846	67.905	43.541	1.00	23.35	N
ATOM	7042	CA	VAL	C	55	-13.870	69.315	43.182	1.00	23.48	C
ATOM	7043	C	VAL	C	55	-13.085	69.562	41.898	1.00	24.89	C
ATOM	7044	O	VAL	C	55	-13.573	70.224	40.986	1.00	26.46	O
ATOM	7045	CB	VAL	C	55	-13.283	70.187	44.300	1.00	23.30	C
ATOM	7046	CG1	VAL	C	55	-13.212	71.639	43.843	1.00	21.54	C
ATOM	7047	CG2	VAL	C	55	-14.135	70.057	45.556	1.00	22.20	C
ATOM	7048	N	LEU	C	56	-11.874	69.018	41.822	1.00	25.16	N
ATOM	7049	CA	LEU	C	56	-11.038	69.192	40.640	1.00	25.23	C
ATOM	7050	C	LEU	C	56	-11.735	68.691	39.376	1.00	26.21	C
ATOM	7051	O	LEU	C	56	-11.727	69.360	38.344	1.00	25.78	O
ATOM	7052	CB	LEU	C	56	-9.711	68.448	40.810	1.00	24.23	C
ATOM	7053	CG	LEU	C	56	-8.764	68.517	39.607	1.00	22.95	C
ATOM	7054	CD1	LEU	C	56	-8.386	69.972	39.355	1.00	22.48	C
ATOM	7055	CD2	LEU	C	56	-7.523	67.676	39.862	1.00	21.53	C
ATOM	7056	N	TRP	C	57	-12.327	67.506	39.459	1.00	26.93	N
ATOM	7057	CA	TRP	C	57	-13.017	66.931	38.313	1.00	29.14	C
ATOM	7058	C	TRP	C	57	-14.155	67.847	37.861	1.00	30.18	C
ATOM	7059	O	TRP	C	57	-14.310	68.114	36.672	1.00	30.32	O
ATOM	7060	CB	TRP	C	57	-13.560	65.545	38.671	1.00	29.30	C
ATOM	7061	CG	TRP	C	57	-14.078	64.794	37.491	1.00	31.32	C
ATOM	7062	CD1	TRP	C	57	-15.378	64.460	37.235	1.00	30.50	C
ATOM	7063	CD2	TRP	C	57	-13.309	64.293	36.388	1.00	30.22	C
ATOM	7064	NE1	TRP	C	57	-15.465	63.781	36.041	1.00	30.91	N
ATOM	7065	CE2	TRP	C	57	-14.210	63.665	35.501	1.00	29.92	C
ATOM	7066	CE3	TRP	C	57	-11.945	64.315	36.065	1.00	31.90	C
ATOM	7067	CZ2	TRP	C	57	-13.793	63.062	34.309	1.00	30.24	C
ATOM	7068	CH3	TRP	C	57	-11.528	63.713	34.875	1.00	30.76	C
ATOM	7069	CH2	TRP	C	57	-12.453	63.096	34.014	1.00	30.53	C
ATOM	7070	N	GLU	C	58	-14.948	68.329	38.812	1.00	31.24	N
ATOM	7071	CA	GLU	C	58	-16.056	69.228	38.505	1.00	32.77	C
ATOM	7072	C	GLU	C	58	-15.556	70.536	37.884	1.00	31.72	C
ATOM	7073	O	GLU	C	58	-16.097	70.998	36.880	1.00	31.12	O
ATOM	7074	CB	GLU	C	58	-16.855	69.552	39.772	1.00	35.50	C
ATOM	7075	CG	GLU	C	58	-17.817	68.462	40.226	1.00	41.33	C
ATOM	7076	CD	GLU	C	58	-18.509	68.811	41.538	1.00	45.66	C
ATOM	7077	OE1	GLU	C	58	-19.046	69.939	41.645	1.00	48.07	O
ATOM	7078	OE2	GLU	C	58	-18.519	67.958	42.458	1.00	47.18	O
ATOM	7079	N	GLN	C	59	-14.531	71.134	38.486	1.00	29.77	N



ATOM	7080	CA	GLN	C	59	-13.990	72.382	37.966	1.00	29.54	C
ATOM	7081	C	GLN	C	59	-13.503	72.217	36.529	1.00	27.49	C
ATOM	7082	O	GLN	C	59	-13.671	73.114	35.710	1.00	27.04	O
ATOM	7083	CB	GLN	C	59	-12.844	72.898	38.849	1.00	28.93	C
ATOM	7084	CG	GLN	C	59	-13.244	73.249	40.285	1.00	30.43	C
ATOM	7085	CD	GLN	C	59	-12.112	73.932	41.078	1.00	32.83	C
ATOM	7086	OE1	GLN	C	59	-10.929	73.701	40.818	1.00	31.59	O
ATOM	7087	NE2	GLN	C	59	-12.480	74.758	42.057	1.00	30.48	N
ATOM	7088	N	LEU	C	60	-12.909	71.069	36.219	1.00	28.81	N
ATOM	7089	CA	LEU	C	60	-12.404	70.818	34.869	1.00	29.92	C
ATOM	7090	C	LEU	C	60	-13.534	70.797	33.843	1.00	31.53	C
ATOM	7091	O	LEU	C	60	-13.312	71.029	32.658	1.00	30.97	O
ATOM	7092	CB	LEU	C	60	-11.633	69.495	34.818	1.00	27.06	C
ATOM	7093	CG	LEU	C	60	-10.272	69.470	35.523	1.00	28.52	C
ATOM	7094	CD1	LEU	C	60	-9.702	68.055	35.523	1.00	27.30	C
ATOM	7095	CD2	LEU	C	60	-9.317	70.419	34.812	1.00	26.40	C
ATOM	7096	N	HIS	C	61	-14.749	70.527	34.305	1.00	33.51	N
ATOM	7097	CA	HIS	C	61	-15.902	70.485	33.411	1.00	36.35	C
ATOM	7098	C	HIS	C	61	-16.736	71.769	33.428	1.00	36.99	C
ATOM	7099	O	HIS	C	61	-17.291	72.160	32.405	1.00	37.26	O
ATOM	7100	CB	HIS	C	61	-16.795	69.297	33.773	1.00	38.87	C
ATOM	7101	CG	HIS	C	61	-16.178	67.964	33.480	1.00	41.32	C
ATOM	7102	ND1	HIS	C	61	-16.138	67.423	32.212	1.00	43.23	N
ATOM	7103	CD2	HIS	C	61	-15.567	67.068	34.290	1.00	42.10	C
ATOM	7104	CE1	HIS	C	61	-15.530	66.251	32.254	1.00	43.54	C
ATOM	7105	NE2	HIS	C	61	-15.173	66.013	33.503	1.00	44.18	N
ATOM	7106	N	ASP	C	62	-16.813	72.428	34.581	1.00	37.85	N
ATOM	7107	CA	ASP	C	62	-17.609	73.646	34.709	1.00	38.39	C
ATOM	7108	C	ASP	C	62	-16.907	74.943	34.350	1.00	38.47	C
ATOM	7109	O	ASP	C	62	-17.567	75.910	33.981	1.00	39.53	O
ATOM	7110	CB	ASP	C	62	-18.167	73.774	36.127	1.00	38.58	C
ATOM	7111	CG	ASP	C	62	-19.039	72.599	36.519	1.00	40.38	C
ATOM	7112	OD1	ASP	C	62	-19.635	71.978	35.618	1.00	41.20	O
ATOM	7113	OD2	ASP	C	62	-19.140	72.305	37.730	1.00	41.15	O
ATOM	7114	N	LEU	C	63	-15.583	74.977	34.460	1.00	38.14	N
ATOM	7115	CA	LEU	C	63	-14.836	76.192	34.149	1.00	37.36	C
ATOM	7116	C	LEU	C	63	-14.243	76.162	32.745	1.00	37.31	C
ATOM	7117	O	LEU	C	63	-14.026	75.091	32.177	1.00	38.46	O
ATOM	7118	CB	LEU	C	63	-13.716	76.401	35.170	1.00	37.11	C
ATOM	7119	CG	LEU	C	63	-14.104	76.391	36.652	1.00	37.82	C
ATOM	7120	CD1	LEU	C	63	-12.873	76.687	37.494	1.00	35.89	C
ATOM	7121	CD2	LEU	C	63	-15.187	77.424	36.920	1.00	36.63	C
ATOM	7122	N	GLU	C	64	-13.989	77.344	32.188	1.00	36.41	N
ATOM	7123	CA	GLU	C	64	-13.411	77.450	30.854	1.00	35.05	C
ATOM	7124	C	GLU	C	64	-12.099	76.678	30.910	1.00	33.26	C
ATOM	7125	O	GLU	C	64	-11.723	75.992	29.963	1.00	33.53	O
ATOM	7126	CB	GLU	C	64	-13.161	78.920	30.498	1.00	36.96	C
ATOM	7127	CG	GLU	C	64	-13.430	79.268	29.038	1.00	39.19	C
ATOM	7128	CD	GLU	C	64	-13.283	80.757	28.752	1.00	42.08	C
ATOM	7129	OE1	GLU	C	64	-13.857	81.568	29.514	1.00	42.13	O
ATOM	7130	OE2	GLU	C	64	-12.603	81.119	27.763	1.00	41.36	O
ATOM	7131	N	TRP	C	65	-11.410	76.809	32.039	1.00	31.95	N
ATOM	7132	CA	TRP	C	65	-10.161	76.100	32.285	1.00	30.91	C
ATOM	7133	C	TRP	C	65	-9.697	76.359	33.717	1.00	30.61	C
ATOM	7134	O	TRP	C	65	-10.088	77.349	34.339	1.00	30.88	O
ATOM	7135	CB	TRP	C	65	-9.086	76.483	31.253	1.00	28.80	C
ATOM	7136	CG	TRP	C	65	-8.331	77.749	31.492	1.00	29.71	C
ATOM	7137	CD1	TRP	C	65	-7.163	77.888	32.187	1.00	29.14	C
ATOM	7138	CD2	TRP	C	65	-8.649	79.050	30.979	1.00	28.28	C
ATOM	7139	NE1	TRP	C	65	-6.729	79.190	32.132	1.00	28.75	N
ATOM	7140	CE2	TRP	C	65	-7.623	79.925	31.398	1.00	28.47	C
ATOM	7141	CE3	TRP	C	65	-9.700	79.560	30.203	1.00	29.19	C
ATOM	7142	CZ2	TRP	C	65	-7.616	81.287	31.067	1.00	29.30	C
ATOM	7143	CZ3	TRP	C	65	-9.694	80.912	29.873	1.00	28.17	C
ATOM	7144	CH2	TRP	C	65	-8.657	81.759	30.306	1.00	28.91	C
ATOM	7145	N	VAL	C	66	-8.899	75.438	34.245	1.00	29.17	N
ATOM	7146	CA	VAL	C	66	-8.391	75.528	35.606	1.00	26.49	C
ATOM	7147	C	VAL	C	66	-6.905	75.823	35.566	1.00	25.74	C
ATOM	7148	O	VAL	C	66	-6.136	75.056	34.993	1.00	28.08	O
ATOM	7149	CB	VAL	C	66	-8.601	74.190	36.354	1.00	27.67	C
ATOM	7150	CG1	VAL	C	66	-8.057	74.287	37.768	1.00	25.43	C
ATOM	7151	CG2	VAL	C	66	-10.078	73.827	36.366	1.00	27.01	C
ATOM	7152	N	ASN	C	67	-6.491	76.934	36.161	1.00	24.02	N
ATOM	7153	CA	ASN	C	67	-5.076	77.261	36.163	1.00	22.88	C
ATOM	7154	C	ASN	C	67	-4.531	77.322	37.582	1.00	22.43	C
ATOM	7155	O	ASN	C	67	-5.291	77.389	38.549	1.00	21.40	O
ATOM	7156	CB	ASN	C	67	-4.822	78.576	35.423	1.00	23.67	C
ATOM	7157	CG	ASN	C	67	-5.606	79.740	35.996	1.00	27.01	C
ATOM	7158	OD1	ASN	C	67	-6.356	79.597	36.966	1.00	26.49	O
ATOM	7159	ND2	ASN	C	67	-5.434	80.911	35.390	1.00	28.36	N



ATOM	7160	N	ALA	C	68	-3.212	77.283	37.707	1.00	20.18	N
ATOM	7161	CA	ALA	C	68	-2.593	77.310	39.020	1.00	20.84	C
ATOM	7162	C	ALA	C	68	-1.131	77.696	38.924	1.00	19.62	C
ATOM	7163	O	ALA	C	68	-0.563	77.762	37.835	1.00	19.16	O
ATOM	7164	CB	ALA	C	68	-2.724	75.931	39.693	1.00	19.94	C
ATOM	7165	N	LEU	C	69	-0.535	77.935	40.086	1.00	18.58	N
ATOM	7166	CA	LEU	C	69	0.867	78.308	40.195	1.00	18.05	C
ATOM	7167	C	LEU	C	69	1.537	77.321	41.145	1.00	18.90	C
ATOM	7168	O	LEU	C	69	0.898	76.803	42.066	1.00	17.67	O
ATOM	7169	CB	LEU	C	69	0.993	79.726	40.772	1.00	18.33	C
ATOM	7170	CG	LEU	C	69	0.381	80.891	39.990	1.00	19.90	C
ATOM	7171	CD1	LEU	C	69	0.413	82.157	40.840	1.00	20.51	C
ATOM	7172	CD2	LEU	C	69	1.140	81.093	38.695	1.00	19.62	C
ATOM	7173	N	GLY	C	70	2.824	77.073	40.926	1.00	18.75	N
ATOM	7174	CA	GLY	C	70	3.549	76.159	41.786	1.00	19.79	C
ATOM	7175	C	GLY	C	70	3.705	76.713	43.192	1.00	21.14	C
ATOM	7176	O	GLY	C	70	4.094	77.868	43.367	1.00	20.73	O
ATOM	7177	N	ALA	C	71	3.390	75.893	44.194	1.00	18.92	N
ATOM	7178	CA	ALA	C	71	3.505	76.302	45.588	1.00	18.53	C
ATOM	7179	C	ALA	C	71	4.463	75.363	46.316	1.00	19.25	C
ATOM	7180	O	ALA	C	71	4.322	74.143	46.216	1.00	19.99	O
ATOM	7181	CB	ALA	C	71	2.139	76.262	46.255	1.00	16.54	C
ATOM	7182	N	LEU	C	72	5.433	75.923	47.041	1.00	18.43	N
ATOM	7183	CA	LEU	C	72	6.388	75.098	47.782	1.00	18.57	C
ATOM	7184	C	LEU	C	72	6.250	75.223	49.297	1.00	18.95	C
ATOM	7185	O	LEU	C	72	6.916	74.502	50.033	1.00	19.88	O
ATOM	7186	CB	LEU	C	72	7.828	75.415	47.376	1.00	17.49	C
ATOM	7187	CG	LEU	C	72	8.352	76.841	47.564	1.00	17.98	C
ATOM	7188	CD1	LEU	C	72	9.671	76.811	48.344	1.00	18.35	C
ATOM	7189	CD2	LEU	C	72	8.551	77.482	46.197	1.00	16.53	C
ATOM	7190	N	THR	C	73	5.415	76.152	49.764	1.00	18.61	N
ATOM	7191	CA	THR	C	73	5.183	76.302	51.201	1.00	18.12	C
ATOM	7192	C	THR	C	73	3.696	76.495	51.444	1.00	18.07	C
ATOM	7193	O	THR	C	73	2.955	76.870	50.533	1.00	16.81	O
ATOM	7194	CB	THR	C	73	5.913	77.511	51.821	1.00	19.17	C
ATOM	7195	OG1	THR	C	73	5.159	78.702	51.568	1.00	19.95	O
ATOM	7196	CG2	THR	C	73	7.325	77.640	51.255	1.00	17.94	C
ATOM	7197	N	GLY	C	74	3.269	76.230	52.677	1.00	16.80	N
ATOM	7198	CA	GLY	C	74	1.870	76.369	53.024	1.00	18.58	C
ATOM	7199	C	GLY	C	74	1.330	77.754	52.732	1.00	18.88	C
ATOM	7200	O	GLY	C	74	0.332	77.892	52.026	1.00	21.96	O
ATOM	7201	N	ASN	C	75	1.988	78.777	53.273	1.00	18.26	N
ATOM	7202	CA	ASN	C	75	1.564	80.158	53.071	1.00	18.33	C
ATOM	7203	C	ASN	C	75	1.397	80.525	51.595	1.00	19.03	C
ATOM	7204	O	ASN	C	75	0.519	81.316	51.244	1.00	19.91	O
ATOM	7205	CB	ASN	C	75	2.559	81.113	53.728	1.00	17.39	C
ATOM	7206	CG	ASN	C	75	2.510	81.055	55.240	1.00	17.18	C
ATOM	7207	OD1	ASN	C	75	1.847	80.193	55.824	1.00	19.35	O
ATOM	7208	ND2	ASN	C	75	3.219	81.970	55.884	1.00	12.68	N
ATOM	7209	N	MET	C	76	2.239	79.966	50.733	1.00	17.66	N
ATOM	7210	CA	MET	C	76	2.131	80.248	49.309	1.00	19.47	C
ATOM	7211	C	MET	C	76	0.762	79.839	48.791	1.00	20.82	C
ATOM	7212	O	MET	C	76	0.068	80.624	48.141	1.00	22.25	O
ATOM	7213	CB	MET	C	76	3.197	79.492	48.519	1.00	19.35	C
ATOM	7214	CG	MET	C	76	4.565	80.141	48.525	1.00	20.16	C
ATOM	7215	SD	MET	C	76	5.577	79.504	47.180	1.00	19.18	S
ATOM	7216	CE	MET	C	76	7.158	80.222	47.605	1.00	18.03	C
ATOM	7217	N	ALA	C	77	0.380	78.601	49.081	1.00	20.42	N
ATOM	7218	CA	ALA	C	77	-0.901	78.080	48.636	1.00	21.24	C
ATOM	7219	C	ALA	C	77	-2.032	78.934	49.201	1.00	20.65	C
ATOM	7220	O	ALA	C	77	-3.028	79.189	48.514	1.00	21.00	O
ATOM	7221	CB	ALA	C	77	-1.057	76.613	49.067	1.00	18.86	C
ATOM	7222	N	VAL	C	78	-1.875	79.375	50.447	1.00	19.44	N
ATOM	7223	CA	VAL	C	78	-2.882	80.217	51.090	1.00	18.62	C
ATOM	7224	C	VAL	C	78	-3.077	81.515	50.302	1.00	19.24	C
ATOM	7225	O	VAL	C	78	-4.208	81.922	50.032	1.00	18.54	O
ATOM	7226	CB	VAL	C	78	-2.477	80.561	52.542	1.00	18.56	C
ATOM	7227	CG1	VAL	C	78	-3.328	81.709	53.075	1.00	18.06	C
ATOM	7228	CG2	VAL	C	78	-2.655	79.327	53.428	1.00	17.48	C
ATOM	7229	N	GLN	C	79	-1.977	82.157	49.925	1.00	20.00	N
ATOM	7230	CA	GLN	C	79	-2.076	83.402	49.169	1.00	22.19	C
ATOM	7231	C	GLN	C	79	-2.696	83.151	47.802	1.00	21.93	C
ATOM	7232	O	GLN	C	79	-3.541	83.920	47.350	1.00	22.33	O
ATOM	7233	CB	GLN	C	79	-0.700	84.052	48.998	1.00	22.75	C
ATOM	7234	CG	GLN	C	79	-0.082	84.579	50.287	1.00	23.54	C
ATOM	7235	CD	GLN	C	79	-1.007	85.504	51.055	1.00	25.26	C
ATOM	7236	OE1	GLN	C	79	-1.733	86.304	50.468	1.00	28.67	O
ATOM	7237	NE2	GLN	C	79	-0.968	85.413	52.378	1.00	24.50	N
ATOM	7238	N	GLN	C	80	-2.283	82.070	47.149	1.00	22.26	N
ATOM	7239	CA	GLN	C	80	-2.816	81.744	45.832	1.00	22.38	C



ATOM	7240	C	GLN	C	80	-4.341	81.637	45.888	1.00	22.97	C
ATOM	7241	O	GLN	C	80	-5.037	82.143	45.008	1.00	23.68	O
ATOM	7242	CB	GLN	C	80	-2.191	80.437	45.322	1.00	22.08	C
ATOM	7243	CG	GLN	C	80	-0.680	80.539	45.085	1.00	18.72	C
ATOM	7244	CD	GLN	C	80	-0.038	79.206	44.723	1.00	19.66	C
ATOM	7245	OE1	GLN	C	80	-0.665	78.150	44.822	1.00	17.91	O
ATOM	7246	NE2	GLN	C	80	1.228	79.250	44.317	1.00	18.90	N
ATOM	7247	N	VAL	C	81	-4.854	80.996	46.933	1.00	21.97	N
ATOM	7248	CA	VAL	C	81	-6.291	80.840	47.100	1.00	21.58	C
ATOM	7249	C	VAL	C	81	-6.895	82.186	47.479	1.00	22.88	C
ATOM	7250	O	VAL	C	81	-7.920	82.597	46.933	1.00	24.58	O
ATOM	7251	CB	VAL	C	81	-6.622	79.793	48.202	1.00	20.72	C
ATOM	7252	CG1	VAL	C	81	-8.119	79.785	48.489	1.00	19.52	C
ATOM	7253	CG2	VAL	C	81	-6.166	78.405	47.757	1.00	18.32	C
ATOM	7254	N	ARG	C	82	-6.257	82.874	48.418	1.00	24.81	N
ATOM	7255	CA	ARG	C	82	-6.735	84.184	48.848	1.00	26.92	C
ATOM	7256	C	ARG	C	82	-6.874	85.106	47.642	1.00	26.89	C
ATOM	7257	O	ARG	C	82	-7.788	85.930	47.585	1.00	29.26	O
ATOM	7258	CB	ARG	C	82	-5.764	84.809	49.858	1.00	24.96	C
ATOM	7259	CG	ARG	C	82	-6.084	86.260	50.224	1.00	27.69	C
ATOM	7260	CD	ARG	C	82	-7.396	86.402	50.988	1.00	27.20	C
ATOM	7261	NE	ARG	C	82	-7.254	86.011	52.388	1.00	32.09	N
ATOM	7262	CZ	ARG	C	82	-8.250	85.985	53.272	1.00	32.07	C
ATOM	7263	NH1	ARG	C	82	-9.481	86.327	52.910	1.00	31.72	N
ATOM	7264	NH2	ARG	C	82	-8.014	85.611	54.525	1.00	29.83	N
ATOM	7265	N	ALA	C	83	-5.967	84.949	46.680	1.00	26.46	N
ATOM	7266	CA	ALA	C	83	-5.955	85.763	45.467	1.00	25.82	C
ATOM	7267	C	ALA	C	83	-7.007	85.374	44.434	1.00	26.46	C
ATOM	7268	O	ALA	C	83	-7.183	86.082	43.448	1.00	27.88	O
ATOM	7269	CB	ALA	C	83	-4.577	85.720	44.829	1.00	23.14	C
ATOM	7270	N	GLY	C	84	-7.687	84.249	44.641	1.00	27.41	N
ATOM	7271	CA	GLY	C	84	-8.713	83.831	43.698	1.00	26.94	C
ATOM	7272	C	GLY	C	84	-8.504	82.531	42.928	1.00	26.57	C
ATOM	7273	O	GLY	C	84	-9.417	82.065	42.248	1.00	25.73	O
ATOM	7274	N	LEU	C	85	-7.319	81.937	43.015	1.00	26.33	N
ATOM	7275	CA	LEU	C	85	-7.065	80.692	42.292	1.00	24.40	C
ATOM	7276	C	LEU	C	85	-7.890	79.551	42.876	1.00	24.89	C
ATOM	7277	O	LEU	C	85	-8.196	79.531	44.068	1.00	23.81	O
ATOM	7278	CB	LEU	C	85	-5.570	80.366	42.321	1.00	22.72	C
ATOM	7279	CG	LEU	C	85	-4.719	81.518	41.768	1.00	21.55	C
ATOM	7280	CD1	LEU	C	85	-3.263	81.110	41.700	1.00	20.68	C
ATOM	7281	CD2	LEU	C	85	-5.221	81.902	40.383	1.00	22.58	C
ATOM	7282	N	LYS	C	86	-8.261	78.600	42.027	1.00	26.93	N
ATOM	7283	CA	LYS	C	86	-9.084	77.482	42.466	1.00	26.96	C
ATOM	7284	C	LYS	C	86	-8.390	76.132	42.401	1.00	26.47	C
ATOM	7285	O	LYS	C	86	-9.040	75.085	42.461	1.00	26.18	O
ATOM	7286	CB	LYS	C	86	-10.380	77.453	41.650	1.00	29.32	C
ATOM	7287	CG	LYS	C	86	-11.265	78.670	41.892	1.00	31.46	C
ATOM	7288	CD	LYS	C	86	-12.611	78.544	41.195	1.00	35.42	C
ATOM	7289	CE	LYS	C	86	-13.505	79.746	41.507	1.00	36.65	C
ATOM	7290	NZ	LYS	C	86	-14.834	79.638	40.842	1.00	39.41	N
ATOM	7291	N	ALA	C	87	-7.068	76.161	42.277	1.00	24.83	N
ATOM	7292	CA	ALA	C	87	-6.271	74.942	42.226	1.00	22.98	C
ATOM	7293	C	ALA	C	87	-4.842	75.280	42.619	1.00	23.42	C
ATOM	7294	O	ALA	C	87	-4.389	76.417	42.448	1.00	22.39	O
ATOM	7295	CB	ALA	C	87	-6.306	74.342	40.832	1.00	22.86	C
ATOM	7296	N	ILE	C	88	-4.138	74.293	43.158	1.00	21.85	N
ATOM	7297	CA	ILE	C	88	-2.761	74.484	43.573	1.00	19.80	C
ATOM	7298	C	ILE	C	88	-1.894	73.452	42.877	1.00	21.01	C
ATOM	7299	O	ILE	C	88	-2.215	72.263	42.856	1.00	20.48	O
ATOM	7300	CB	ILE	C	88	-2.609	74.311	45.102	1.00	20.79	C
ATOM	7301	CG1	ILE	C	88	-3.436	75.375	45.828	1.00	22.14	C
ATOM	7302	CG2	ILE	C	88	-1.146	74.427	45.501	1.00	17.70	C
ATOM	7303	CD1	ILE	C	88	-3.672	75.066	47.279	1.00	26.14	C
ATOM	7304	N	TYR	C	89	-0.806	73.914	42.283	1.00	19.97	N
ATOM	7305	CA	TYR	C	89	0.104	73.006	41.622	1.00	20.63	C
ATOM	7306	C	TYR	C	89	1.302	72.804	42.543	1.00	20.74	C
ATOM	7307	O	TYR	C	89	1.844	73.769	43.075	1.00	22.79	O
ATOM	7308	CB	TYR	C	89	0.571	73.571	40.288	1.00	18.47	C
ATOM	7309	CG	TYR	C	89	1.557	72.650	39.627	1.00	19.02	C
ATOM	7310	CD1	TYR	C	89	1.176	71.377	39.226	1.00	18.67	C
ATOM	7311	CD2	TYR	C	89	2.894	73.014	39.486	1.00	19.15	C
ATOM	7312	CE1	TYR	C	89	2.100	70.484	38.709	1.00	19.66	C
ATOM	7313	CE2	TYR	C	89	3.825	72.133	38.972	1.00	18.96	C
ATOM	7314	CZ	TYR	C	89	3.421	70.869	38.589	1.00	20.49	C
ATOM	7315	OH	TYR	C	89	4.341	69.982	38.102	1.00	20.35	O
ATOM	7316	N	LEU	C	90	1.698	71.552	42.744	1.00	20.15	N
ATOM	7317	CA	LEU	C	90	2.829	71.241	43.610	1.00	19.94	C
ATOM	7318	C	LEU	C	90	3.950	70.662	42.769	1.00	20.61	C
ATOM	7319	O	LEU	C	90	3.970	69.472	42.462	1.00	23.49	O



ATOM	7320	CB	LEU	C	90	2.389	70.264	44.705	1.00	19.34	C
ATOM	7321	CG	LEU	C	90	3.348	69.594	45.701	1.00	20.98	C
ATOM	7322	CD1	LEU	C	90	4.698	70.282	45.785	1.00	16.74	C
ATOM	7323	CD2	LEU	C	90	2.651	69.580	47.045	1.00	16.76	C
ATOM	7324	N	SER	C	91	4.882	71.534	42.404	1.00	20.74	N
ATOM	7325	CA	SER	C	91	6.028	71.196	41.567	1.00	19.92	C
ATOM	7326	C	SER	C	91	7.104	70.351	42.238	1.00	19.42	C
ATOM	7327	O	SER	C	91	7.508	70.629	43.367	1.00	18.57	O
ATOM	7328	CB	SER	C	91	6.667	72.488	41.046	1.00	20.54	C
ATOM	7329	OG	SER	C	91	7.992	72.258	40.592	1.00	17.99	O
ATOM	7330	N	GLY	C	92	7.575	69.330	41.524	1.00	19.23	N
ATOM	7331	CA	GLY	C	92	8.623	68.470	42.050	1.00	19.12	C
ATOM	7332	C	GLY	C	92	9.933	69.229	41.968	1.00	20.24	C
ATOM	7333	O	GLY	C	92	10.808	69.110	42.834	1.00	18.95	O
ATOM	7334	N	TRP	C	93	10.059	70.020	40.903	1.00	19.94	N
ATOM	7335	CA	TRP	C	93	11.234	70.851	40.676	1.00	19.23	C
ATOM	7336	C	TRP	C	93	11.480	71.719	41.919	1.00	19.67	C
ATOM	7337	O	TRP	C	93	12.576	71.718	42.488	1.00	20.04	O
ATOM	7338	CB	TRP	C	93	10.999	71.765	39.466	1.00	19.69	C
ATOM	7339	CG	TRP	C	93	12.235	72.459	38.956	1.00	20.13	C
ATOM	7340	CD1	TRP	C	93	12.946	72.138	37.837	1.00	21.41	C
ATOM	7341	CD2	TRP	C	93	12.905	73.584	39.546	1.00	18.83	C
ATOM	7342	NE1	TRP	C	93	14.013	72.989	37.689	1.00	21.26	N
ATOM	7343	CE2	TRP	C	93	14.014	73.886	38.723	1.00	20.27	C
ATOM	7344	CE3	TRP	C	93	12.678	74.363	40.687	1.00	18.48	C
ATOM	7345	CZ2	TRP	C	93	14.897	74.940	39.005	1.00	17.68	C
ATOM	7346	CZ3	TRP	C	93	13.558	75.414	40.969	1.00	17.61	C
ATOM	7347	CH2	TRP	C	93	14.652	75.689	40.129	1.00	18.68	C
ATOM	7348	N	GLN	C	94	10.452	72.456	42.339	1.00	18.83	N
ATOM	7349	CA	GLN	C	94	10.579	73.342	43.495	1.00	17.74	C
ATOM	7350	C	GLN	C	94	10.910	72.596	44.775	1.00	17.89	C
ATOM	7351	O	GLN	C	94	11.660	73.096	45.621	1.00	16.78	O
ATOM	7352	CB	GLN	C	94	9.301	74.162	43.680	1.00	19.70	C
ATOM	7353	CG	GLN	C	94	8.977	75.049	42.484	1.00	17.93	C
ATOM	7354	CD	GLN	C	94	7.789	75.955	42.726	1.00	19.42	C
ATOM	7355	OE1	GLN	C	94	6.788	75.545	43.324	1.00	22.08	O
ATOM	7356	NE2	GLN	C	94	7.882	77.192	42.251	1.00	18.68	N
ATOM	7357	N	VAL	C	95	10.347	71.402	44.921	1.00	16.47	N
ATOM	7358	CA	VAL	C	95	10.610	70.586	46.096	1.00	14.31	C
ATOM	7359	C	VAL	C	95	12.094	70.218	46.086	1.00	14.13	C
ATOM	7360	O	VAL	C	95	12.770	70.337	47.098	1.00	17.68	O
ATOM	7361	CB	VAL	C	95	9.705	69.323	46.096	1.00	14.24	C
ATOM	7362	CG1	VAL	C	95	10.169	68.323	47.143	1.00	12.45	C
ATOM	7363	CG2	VAL	C	95	8.258	69.743	46.389	1.00	12.25	C
ATOM	7364	N	ALA	C	96	12.599	69.790	44.936	1.00	14.94	N
ATOM	7365	CA	ALA	C	96	14.010	69.447	44.805	1.00	15.30	C
ATOM	7366	C	ALA	C	96	14.869	70.660	45.158	1.00	17.62	C
ATOM	7367	O	ALA	C	96	15.887	70.547	45.851	1.00	17.77	O
ATOM	7368	CB	ALA	C	96	14.316	69.015	43.378	1.00	14.32	C
ATOM	7369	N	GLY	C	97	14.446	71.827	44.687	1.00	17.18	N
ATOM	7370	CA	GLY	C	97	15.221	73.022	44.933	1.00	16.88	C
ATOM	7371	C	GLY	C	97	15.149	73.702	46.284	1.00	18.27	C
ATOM	7372	O	GLY	C	97	16.138	74.296	46.710	1.00	19.90	O
ATOM	7373	N	ASP	C	98	14.022	73.604	46.981	1.00	17.61	N
ATOM	7374	CA	ASP	C	98	13.901	74.319	48.237	1.00	17.18	C
ATOM	7375	C	ASP	C	98	12.912	73.731	49.255	1.00	19.56	C
ATOM	7376	O	ASP	C	98	12.582	74.398	50.241	1.00	19.76	O
ATOM	7377	CB	ASP	C	98	13.515	75.766	47.895	1.00	17.88	C
ATOM	7378	CG	ASP	C	98	13.905	76.764	48.966	1.00	17.44	C
ATOM	7379	OD1	ASP	C	98	14.982	76.612	49.587	1.00	16.63	O
ATOM	7380	OD2	ASP	C	98	13.134	77.725	49.163	1.00	18.13	O
ATOM	7381	N	ALA	C	99	12.448	72.497	49.044	1.00	18.41	N
ATOM	7382	CA	ALA	C	99	11.496	71.901	49.987	1.00	17.92	C
ATOM	7383	C	ALA	C	99	11.410	70.361	50.015	1.00	18.71	C
ATOM	7384	O	ALA	C	99	10.311	69.796	49.948	1.00	18.36	O
ATOM	7385	CB	ALA	C	99	10.104	72.489	49.735	1.00	16.15	C
ATOM	7386	N	ASN	C	100	12.548	69.677	50.108	1.00	17.81	N
ATOM	7387	CA	ASN	C	100	12.522	68.217	50.160	1.00	17.17	C
ATOM	7388	C	ASN	C	100	13.115	67.721	51.474	1.00	17.34	C
ATOM	7389	O	ASN	C	100	13.893	68.422	52.129	1.00	16.65	O
ATOM	7390	CB	ASN	C	100	13.254	67.588	48.965	1.00	17.15	C
ATOM	7391	CG	ASN	C	100	14.751	67.821	48.995	1.00	20.85	C
ATOM	7392	OD1	ASN	C	100	15.267	68.719	48.322	1.00	23.24	O
ATOM	7393	ND2	ASN	C	100	15.459	67.012	49.772	1.00	18.75	N
ATOM	7394	N	LEU	C	101	12.748	66.503	51.851	1.00	15.93	N
ATOM	7395	CA	LEU	C	101	13.182	65.923	53.110	1.00	15.35	C
ATOM	7396	C	LEU	C	101	14.679	65.638	53.309	1.00	16.05	C
ATOM	7397	O	LEU	C	101	15.078	65.216	54.395	1.00	13.28	O
ATOM	7398	CB	LEU	C	101	12.354	64.665	53.390	1.00	15.81	C
ATOM	7399	CG	LEU	C	101	10.834	64.897	53.371	1.00	18.71	C



ATOM	7400	CD1	LEU	C	101	10.095	63.564	53.427	1.00	16.23	C
ATOM	7401	CD2	LEU	C	101	10.432	65.789	54.534	1.00	15.88	C
ATOM	7402	N	SER	C	102	15.514	65.848	52.293	1.00	14.45	N
ATOM	7403	CA	SER	C	102	16.941	65.618	52.507	1.00	16.02	C
ATOM	7404	C	SER	C	102	17.561	66.890	53.084	1.00	17.03	C
ATOM	7405	O	SER	C	102	18.656	66.860	53.640	1.00	16.75	O
ATOM	7406	CB	SER	C	102	17.662	65.261	51.208	1.00	13.66	C
ATOM	7407	OG	SER	C	102	17.995	66.431	50.495	1.00	17.74	O
ATOM	7408	N	GLY	C	103	16.842	68.003	52.957	1.00	17.80	N
ATOM	7409	CA	GLY	C	103	17.341	69.273	53.453	1.00	17.80	C
ATOM	7410	C	GLY	C	103	18.305	69.916	52.465	1.00	18.86	C
ATOM	7411	O	GLY	C	103	18.793	71.021	52.686	1.00	19.81	O
ATOM	7412	N	HIS	C	104	18.579	69.225	51.363	1.00	18.58	N
ATOM	7413	CA	HIS	C	104	19.493	69.749	50.356	1.00	17.60	C
ATOM	7414	C	HIS	C	104	18.813	70.405	49.162	1.00	18.70	C
ATOM	7415	O	HIS	C	104	17.624	70.187	48.902	1.00	18.02	O
ATOM	7416	CB	HIS	C	104	20.401	68.635	49.847	1.00	16.45	C
ATOM	7417	CG	HIS	C	104	21.484	68.260	50.805	1.00	19.29	C
ATOM	7418	ND1	HIS	C	104	21.574	67.007	51.375	1.00	17.55	N
ATOM	7419	CD2	HIS	C	104	22.520	68.978	51.301	1.00	16.13	C
ATOM	7420	CE1	HIS	C	104	22.619	66.969	52.180	1.00	16.68	C
ATOM	7421	NE2	HIS	C	104	23.210	68.151	52.152	1.00	20.40	N
ATOM	7422	N	THR	C	105	19.589	71.222	48.451	1.00	18.80	N
ATOM	7423	CA	THR	C	105	19.137	71.906	47.243	1.00	17.29	C
ATOM	7424	C	THR	C	105	19.559	70.985	46.095	1.00	16.43	C
ATOM	7425	O	THR	C	105	20.718	70.567	46.013	1.00	16.05	O
ATOM	7426	CB	THR	C	105	19.817	73.294	47.096	1.00	17.95	C
ATOM	7427	OG1	THR	C	105	19.355	74.162	48.140	1.00	19.01	O
ATOM	7428	CG2	THR	C	105	19.483	73.928	45.744	1.00	18.26	C
ATOM	7429	N	TYR	C	106	18.621	70.656	45.218	1.00	16.15	N
ATOM	7430	CA	TYR	C	106	18.916	69.747	44.113	1.00	15.63	C
ATOM	7431	C	TYR	C	106	18.331	70.166	42.778	1.00	16.18	C
ATOM	7432	O	TYR	C	106	17.319	70.864	42.720	1.00	15.80	O
ATOM	7433	CB	TYR	C	106	18.330	68.350	44.374	1.00	15.42	C
ATOM	7434	CG	TYR	C	106	18.928	67.519	45.478	1.00	14.77	C
ATOM	7435	CD1	TYR	C	106	20.290	67.216	45.498	1.00	14.24	C
ATOM	7436	CD2	TYR	C	106	18.110	66.946	46.452	1.00	13.93	C
ATOM	7437	CE1	TYR	C	106	20.818	66.354	46.457	1.00	15.11	C
ATOM	7438	CE2	TYR	C	106	18.627	66.083	47.412	1.00	13.04	C
ATOM	7439	CZ	TYR	C	106	19.979	65.789	47.409	1.00	14.42	C
ATOM	7440	OH	TYR	C	106	20.488	64.923	48.347	1.00	15.31	O
ATOM	7441	N	PRO	C	107	18.975	69.741	41.677	1.00	18.19	N
ATOM	7442	CA	PRO	C	107	18.466	70.061	40.343	1.00	18.87	C
ATOM	7443	C	PRO	C	107	17.302	69.067	40.161	1.00	19.10	C
ATOM	7444	O	PRO	C	107	17.189	68.103	40.917	1.00	16.69	O
ATOM	7445	CB	PRO	C	107	19.655	69.761	39.434	1.00	17.45	C
ATOM	7446	CG	PRO	C	107	20.391	68.709	40.169	1.00	17.81	C
ATOM	7447	CD	PRO	C	107	20.339	69.195	41.593	1.00	16.38	C
ATOM	7448	N	ASP	C	108	16.452	69.290	39.169	1.00	19.90	N
ATOM	7449	CA	ASP	C	108	15.286	68.435	38.953	1.00	20.72	C
ATOM	7450	C	ASP	C	108	15.618	67.066	38.358	1.00	21.51	C
ATOM	7451	O	ASP	C	108	15.394	66.836	37.168	1.00	21.19	O
ATOM	7452	CB	ASP	C	108	14.302	69.177	38.045	1.00	22.58	C
ATOM	7453	CG	ASP	C	108	12.917	68.575	38.063	1.00	21.98	C
ATOM	7454	OD1	ASP	C	108	12.656	67.677	38.890	1.00	23.30	O
ATOM	7455	OD2	ASP	C	108	12.084	69.017	37.248	1.00	24.06	O
ATOM	7456	N	GLN	C	109	16.117	66.153	39.190	1.00	20.43	N
ATOM	7457	CA	GLN	C	109	16.504	64.823	38.721	1.00	20.88	C
ATOM	7458	C	GLN	C	109	16.136	63.665	39.663	1.00	21.51	C
ATOM	7459	O	GLN	C	109	16.878	62.683	39.762	1.00	21.07	O
ATOM	7460	CB	GLN	C	109	18.015	64.807	38.463	1.00	18.18	C
ATOM	7461	CG	GLN	C	109	18.460	65.875	37.475	1.00	21.28	C
ATOM	7462	CD	GLN	C	109	19.954	65.871	37.237	1.00	22.45	C
ATOM	7463	OE1	GLN	C	109	20.535	64.858	36.836	1.00	24.00	O
ATOM	7464	NE2	GLN	C	109	20.586	67.008	37.481	1.00	23.95	N
ATOM	7465	N	SER	C	110	14.997	63.777	40.342	1.00	21.68	N
ATOM	7466	CA	SER	C	110	14.551	62.740	41.276	1.00	21.24	C
ATOM	7467	C	SER	C	110	15.637	62.337	42.280	1.00	20.52	C
ATOM	7468	O	SER	C	110	15.830	61.146	42.549	1.00	20.12	O
ATOM	7469	CB	SER	C	110	14.092	61.500	40.506	1.00	19.73	C
ATOM	7470	OG	SER	C	110	12.945	61.784	39.725	1.00	21.74	O
ATOM	7471	N	LEU	C	111	16.326	63.328	42.843	1.00	19.69	N
ATOM	7472	CA	LEU	C	111	17.400	63.078	43.805	1.00	18.81	C
ATOM	7473	C	LEU	C	111	16.927	63.024	45.258	1.00	18.85	C
ATOM	7474	O	LEU	C	111	17.560	62.391	46.105	1.00	17.11	O
ATOM	7475	CB	LEU	C	111	18.482	64.160	43.674	1.00	17.46	C
ATOM	7476	CG	LEU	C	111	19.283	64.153	42.368	1.00	20.34	C
ATOM	7477	CD1	LEU	C	111	20.229	65.343	42.302	1.00	19.50	C
ATOM	7478	CD2	LEU	C	111	20.055	62.855	42.273	1.00	19.03	C
ATOM	7479	N	TYR	C	112	15.808	63.681	45.541	1.00	18.70	N

7-102/7



ATOM	7480	CA	TYR	C	112	15.272	63.742	46.895	1.00	16.45	C
ATOM	7481	C	TYR	C	112	14.458	62.517	47.323	1.00	16.25	C
ATOM	7482	O	TYR	C	112	14.070	61.696	46.494	1.00	17.22	O
ATOM	7483	CB	TYR	C	112	14.438	65.015	47.038	1.00	16.27	C
ATOM	7484	CG	TYR	C	112	13.242	65.107	46.109	1.00	17.56	C
ATOM	7485	CD1	TYR	C	112	12.060	64.428	46.400	1.00	17.29	C
ATOM	7486	CD2	TYR	C	112	13.282	65.900	44.954	1.00	17.69	C
ATOM	7487	CE1	TYR	C	112	10.946	64.533	45.580	1.00	17.13	C
ATOM	7488	CE2	TYR	C	112	12.165	66.015	44.120	1.00	16.74	C
ATOM	7489	CZ	TYR	C	112	10.996	65.327	44.443	1.00	18.75	C
ATOM	7490	OH	TYR	C	112	9.864	65.435	43.653	1.00	16.65	O
ATOM	7491	N	PRO	C	113	14.212	62.373	48.636	1.00	15.54	N
ATOM	7492	CA	PRO	C	113	13.442	61.249	49.186	1.00	14.19	C
ATOM	7493	C	PRO	C	113	12.025	61.217	48.598	1.00	15.32	C
ATOM	7494	O	PRO	C	113	11.324	62.239	48.575	1.00	14.40	O
ATOM	7495	CB	PRO	C	113	13.448	61.528	50.690	1.00	14.06	C
ATOM	7496	CG	PRO	C	113	14.772	62.239	50.892	1.00	15.28	C
ATOM	7497	CD	PRO	C	113	14.761	63.210	49.722	1.00	16.13	C
ATOM	7498	N	ALA	C	114	11.620	60.033	48.143	1.00	13.04	N
ATOM	7499	CA	ALA	C	114	10.325	59.818	47.503	1.00	15.19	C
ATOM	7500	C	ALA	C	114	9.084	60.257	48.274	1.00	15.75	C
ATOM	7501	O	ALA	C	114	8.015	60.394	47.682	1.00	15.64	O
ATOM	7502	CB	ALA	C	114	10.188	58.347	47.087	1.00	13.22	C
ATOM	7503	N	ASN	C	115	9.199	60.470	49.582	1.00	15.10	N
ATOM	7504	CA	ASN	C	115	8.033	60.922	50.331	1.00	15.36	C
ATOM	7505	C	ASN	C	115	8.035	62.444	50.519	1.00	14.82	C
ATOM	7506	O	ASN	C	115	7.227	62.973	51.272	1.00	15.84	O
ATOM	7507	CB	ASN	C	115	7.949	60.215	51.692	1.00	14.23	C
ATOM	7508	CG	ASN	C	115	9.137	60.499	52.574	1.00	15.29	C
ATOM	7509	OD1	ASN	C	115	10.245	60.726	52.086	1.00	14.04	O
ATOM	7510	ND2	ASN	C	115	8.921	60.466	53.889	1.00	13.65	N
ATOM	7511	N	SER	C	116	8.923	63.146	49.816	1.00	13.74	N
ATOM	7512	CA	SER	C	116	9.002	64.605	49.944	1.00	13.60	C
ATOM	7513	C	SER	C	116	7.752	65.332	49.471	1.00	13.01	C
ATOM	7514	O	SER	C	116	7.188	66.146	50.202	1.00	15.65	O
ATOM	7515	CB	SER	C	116	10.222	65.153	49.199	1.00	13.11	C
ATOM	7516	OG	SER	C	116	11.422	64.750	49.839	1.00	16.08	O
ATOM	7517	N	VAL	C	117	7.307	65.050	48.255	1.00	12.88	N
ATOM	7518	CA	VAL	C	117	6.113	65.715	47.756	1.00	13.88	C
ATOM	7519	C	VAL	C	117	4.901	65.423	48.647	1.00	14.81	C
ATOM	7520	O	VAL	C	117	4.199	66.346	49.040	1.00	18.18	O
ATOM	7521	CB	VAL	C	117	5.849	65.337	46.284	1.00	12.16	C
ATOM	7522	CG1	VAL	C	117	4.489	65.865	45.822	1.00	10.94	C
ATOM	7523	CG2	VAL	C	117	6.960	65.945	45.417	1.00	10.61	C
ATOM	7524	N	PRO	C	118	4.650	64.143	48.993	1.00	15.08	N
ATOM	7525	CA	PRO	C	118	3.497	63.857	49.854	1.00	15.17	C
ATOM	7526	C	PRO	C	118	3.499	64.736	51.104	1.00	16.07	C
ATOM	7527	O	PRO	C	118	2.456	65.248	51.510	1.00	15.43	O
ATOM	7528	CB	PRO	C	118	3.669	62.378	50.179	1.00	13.76	C
ATOM	7529	CG	PRO	C	118	4.259	61.847	48.895	1.00	15.31	C
ATOM	7530	CD	PRO	C	118	5.304	62.894	48.560	1.00	13.11	C
ATOM	7531	N	GLN	C	119	4.672	64.920	51.706	1.00	16.62	N
ATOM	7532	CA	GLN	C	119	4.784	65.761	52.896	1.00	17.46	C
ATOM	7533	C	GLN	C	119	4.399	67.213	52.584	1.00	16.79	C
ATOM	7534	O	GLN	C	119	3.796	67.893	53.410	1.00	16.65	O
ATOM	7535	CB	GLN	C	119	6.208	65.726	53.452	1.00	20.58	C
ATOM	7536	CG	GLN	C	119	6.514	64.531	54.340	1.00	26.44	C
ATOM	7537	CD	GLN	C	119	5.624	64.484	55.560	1.00	28.91	C
ATOM	7538	OE1	GLN	C	119	4.492	64.003	55.501	1.00	32.16	O
ATOM	7539	NE2	GLN	C	119	6.123	65.004	56.677	1.00	32.80	N
ATOM	7540	N	VAL	C	120	4.748	67.691	51.397	1.00	15.27	N
ATOM	7541	CA	VAL	C	120	4.396	69.055	51.043	1.00	15.91	C
ATOM	7542	C	VAL	C	120	2.894	69.136	50.757	1.00	16.52	C
ATOM	7543	O	VAL	C	120	2.272	70.169	51.004	1.00	15.45	O
ATOM	7544	CB	VAL	C	120	5.197	69.552	49.827	1.00	14.77	C
ATOM	7545	CG1	VAL	C	120	4.713	70.939	49.408	1.00	10.62	C
ATOM	7546	CG2	VAL	C	120	6.676	69.612	50.190	1.00	12.80	C
ATOM	7547	N	VAL	C	121	2.318	68.048	50.250	1.00	14.18	N
ATOM	7548	CA	VAL	C	121	0.883	68.016	49.980	1.00	14.23	C
ATOM	7549	C	VAL	C	121	0.172	68.179	51.323	1.00	15.76	C
ATOM	7550	O	VAL	C	121	-0.695	69.035	51.471	1.00	15.25	O
ATOM	7551	CB	VAL	C	121	0.449	66.674	49.348	1.00	13.81	C
ATOM	7552	CG1	VAL	C	121	-1.076	66.567	49.327	1.00	12.66	C
ATOM	7553	CG2	VAL	C	121	1.009	66.563	47.938	1.00	13.19	C
ATOM	7554	N	ARG	C	122	0.554	67.352	52.297	1.00	15.27	N
ATOM	7555	CA	ARG	C	122	-0.029	67.405	53.634	1.00	15.60	C
ATOM	7556	C	ARG	C	122	0.120	68.804	54.233	1.00	15.78	C
ATOM	7557	O	ARG	C	122	-0.804	69.324	54.864	1.00	15.65	O
ATOM	7558	CB	ARG	C	122	0.662	66.382	54.546	1.00	13.65	C
ATOM	7559	CG	ARG	C	122	0.135	66.327	55.976	1.00	15.61	C



ATOM	7560	CD	ARG	C	122	-1.314	65.808	56.048	1.00	15.04	C
ATOM	7561	NE	ARG	C	122	-2.281	66.899	56.073	1.00	16.93	N
ATOM	7562	CZ	ARG	C	122	-3.602	66.744	56.166	1.00	17.59	C
ATOM	7563	NH1	ARG	C	122	-4.137	65.528	56.236	1.00	14.80	N
ATOM	7564	NH2	ARG	C	122	-4.386	67.811	56.223	1.00	14.66	N
ATOM	7565	N	ARG	C	123	1.290	69.407	54.034	1.00	15.59	N
ATOM	7566	CA	ARG	C	123	1.563	70.740	54.560	1.00	16.98	C
ATOM	7567	C	ARG	C	123	0.632	71.783	53.940	1.00	16.91	C
ATOM	7568	O	ARG	C	123	0.039	72.602	54.645	1.00	17.12	O
ATOM	7569	CB	ARG	C	123	3.036	71.109	54.318	1.00	17.74	C
ATOM	7570	CG	ARG	C	123	3.380	72.577	54.527	1.00	17.30	C
ATOM	7571	CD	ARG	C	123	2.936	73.081	55.895	1.00	17.84	C
ATOM	7572	NE	ARG	C	123	2.955	74.542	55.937	1.00	19.18	N
ATOM	7573	CZ	ARG	C	123	2.150	75.280	56.695	1.00	18.50	C
ATOM	7574	NH1	ARG	C	123	1.259	74.689	57.485	1.00	17.60	N
ATOM	7575	NH2	ARG	C	123	2.218	76.608	56.646	1.00	16.08	N
ATOM	7576	N	ILE	C	124	0.498	71.750	52.622	1.00	17.23	N
ATOM	7577	CA	ILE	C	124	-0.378	72.695	51.947	1.00	18.09	C
ATOM	7578	C	ILE	C	124	-1.816	72.550	52.450	1.00	18.12	C
ATOM	7579	O	ILE	C	124	-2.489	73.547	52.716	1.00	17.47	O
ATOM	7580	CB	ILE	C	124	-0.333	72.497	50.426	1.00	18.04	C
ATOM	7581	CG1	ILE	C	124	0.995	73.036	49.884	1.00	17.06	C
ATOM	7582	CG2	ILE	C	124	-1.522	73.201	49.773	1.00	19.21	C
ATOM	7583	CD1	ILE	C	124	1.235	72.717	48.420	1.00	17.66	C
ATOM	7584	N	ASN	C	125	-2.292	71.315	52.579	1.00	16.40	N
ATOM	7585	CA	ASN	C	125	-3.639	71.121	53.083	1.00	17.85	C
ATOM	7586	C	ASN	C	125	-3.777	71.657	54.514	1.00	18.65	C
ATOM	7587	O	ASN	C	125	-4.804	72.244	54.858	1.00	18.46	O
ATOM	7588	CB	ASN	C	125	-4.041	69.642	53.028	1.00	18.22	C
ATOM	7589	CG	ASN	C	125	-4.701	69.269	51.710	1.00	18.08	C
ATOM	7590	OD1	ASN	C	125	-5.445	70.064	51.136	1.00	16.95	O
ATOM	7591	ND2	ASN	C	125	-4.444	68.055	51.233	1.00	15.95	N
ATOM	7592	N	ASN	C	126	-2.754	71.463	55.349	1.00	18.77	N
ATOM	7593	CA	ASN	C	126	-2.816	71.966	56.720	1.00	17.41	C
ATOM	7594	C	ASN	C	126	-2.923	73.485	56.705	1.00	18.38	C
ATOM	7595	O	ASN	C	126	-3.664	74.076	57.498	1.00	19.10	O
ATOM	7596	CB	ASN	C	126	-1.576	71.576	57.530	1.00	17.46	C
ATOM	7597	CG	ASN	C	126	-1.500	70.088	57.820	1.00	19.67	C
ATOM	7598	OD1	ASN	C	126	-2.510	69.377	57.799	1.00	18.46	O
ATOM	7599	ND2	ASN	C	126	-0.296	69.612	58.115	1.00	16.42	N
ATOM	7600	N	ALA	C	127	-2.175	74.115	55.806	1.00	16.90	N
ATOM	7601	CA	ALA	C	127	-2.185	75.576	55.701	1.00	18.18	C
ATOM	7602	C	ALA	C	127	-3.566	76.082	55.288	1.00	16.57	C
ATOM	7603	O	ALA	C	127	-4.083	77.038	55.856	1.00	15.96	O
ATOM	7604	CB	ALA	C	127	-1.138	76.039	54.696	1.00	14.63	C
ATOM	7605	N	LEU	C	128	-4.157	75.428	54.297	1.00	17.25	N
ATOM	7606	CA	LEU	C	128	-5.473	75.813	53.823	1.00	17.63	C
ATOM	7607	C	LEU	C	128	-6.511	75.567	54.912	1.00	18.93	C
ATOM	7608	O	LEU	C	128	-7.446	76.347	55.065	1.00	19.97	O
ATOM	7609	CB	LEU	C	128	-5.827	75.035	52.548	1.00	14.23	C
ATOM	7610	CG	LEU	C	128	-4.880	75.285	51.368	1.00	15.87	C
ATOM	7611	CD1	LEU	C	128	-5.350	74.475	50.169	1.00	18.57	C
ATOM	7612	CD2	LEU	C	128	-4.842	76.777	51.017	1.00	13.18	C
ATOM	7613	N	GLN	C	129	-6.339	74.496	55.680	1.00	18.67	N
ATOM	7614	CA	GLN	C	129	-7.279	74.193	56.754	1.00	19.44	C
ATOM	7615	C	GLN	C	129	-7.220	75.267	57.832	1.00	19.35	C
ATOM	7616	O	GLN	C	129	-8.240	75.606	58.435	1.00	19.97	O
ATOM	7617	CB	GLN	C	129	-6.983	72.819	57.371	1.00	20.12	C
ATOM	7618	CG	GLN	C	129	-7.412	71.643	56.501	1.00	21.93	C
ATOM	7619	CD	GLN	C	129	-7.022	70.303	57.096	1.00	22.68	C
ATOM	7620	OE1	GLN	C	129	-5.841	69.988	57.210	1.00	23.93	O
ATOM	7621	NE2	GLN	C	129	-8.016	69.507	57.475	1.00	23.07	N
ATOM	7622	N	ARG	C	130	-6.030	75.804	58.075	1.00	18.23	N
ATOM	7623	CA	ARG	C	130	-5.886	76.846	59.079	1.00	18.61	C
ATOM	7624	C	ARG	C	130	-6.625	78.088	58.584	1.00	19.53	C
ATOM	7625	O	ARG	C	130	-7.381	78.717	59.329	1.00	18.21	O
ATOM	7626	CB	ARG	C	130	-4.411	77.183	59.315	1.00	15.27	C
ATOM	7627	CG	ARG	C	130	-4.187	78.127	60.493	1.00	14.84	C
ATOM	7628	CD	ARG	C	130	-4.602	77.482	61.817	1.00	16.37	C
ATOM	7629	NE	ARG	C	130	-3.590	76.556	62.327	1.00	16.87	N
ATOM	7630	CZ	ARG	C	130	-3.859	75.425	62.979	1.00	17.87	C
ATOM	7631	NH1	ARG	C	130	-5.115	75.061	63.202	1.00	15.83	N
ATOM	7632	NH2	ARG	C	130	-2.866	74.661	63.426	1.00	16.20	N
ATOM	7633	N	ALA	C	131	-6.403	78.437	57.322	1.00	19.63	N
ATOM	7634	CA	ALA	C	131	-7.065	79.598	56.736	1.00	20.75	C
ATOM	7635	C	ALA	C	131	-8.580	79.406	56.815	1.00	21.14	C
ATOM	7636	O	ALA	C	131	-9.321	80.327	57.139	1.00	22.07	O
ATOM	7637	CB	ALA	C	131	-6.631	79.769	55.287	1.00	20.68	C
ATOM	7638	N	ASP	C	132	-9.033	78.195	56.523	1.00	21.83	N
ATOM	7639	CA	ASP	C	132	-10.450	77.888	56.560	1.00	22.27	C



ATOM	7640	C	ASP	C	132	-10.983	78.090	57.977	1.00	24.58	C
ATOM	7641	O	ASP	C	132	-12.051	78.671	58.172	1.00	25.24	O
ATOM	7642	CB	ASP	C	132	-10.680	76.447	56.101	1.00	22.42	C
ATOM	7643	CG	ASP	C	132	-12.139	76.044	56.152	1.00	23.96	C
ATOM	7644	OD1	ASP	C	132	-12.958	76.671	55.443	1.00	24.98	O
ATOM	7645	OD2	ASP	C	132	-12.470	75.100	56.902	1.00	23.90	O
ATOM	7646	N	GLN	C	133	-10.227	77.617	58.965	1.00	25.06	N
ATOM	7647	CA	GLN	C	133	-10.614	77.739	60.368	1.00	23.73	C
ATOM	7648	C	GLN	C	133	-10.693	79.200	60.801	1.00	24.05	C
ATOM	7649	O	GLN	C	133	-11.617	79.600	61.512	1.00	22.68	O
ATOM	7650	CB	GLN	C	133	-9.611	76.993	61.252	1.00	23.40	C
ATOM	7651	CG	GLN	C	133	-9.670	75.480	61.113	1.00	21.89	C
ATOM	7652	CD	GLN	C	133	-8.334	74.811	61.399	1.00	22.61	C
ATOM	7653	OE1	GLN	C	133	-8.210	73.584	61.333	1.00	22.21	O
ATOM	7654	NE2	GLN	C	133	-7.326	75.615	61.711	1.00	21.72	N
ATOM	7655	N	ILE	C	134	-9.715	79.990	60.369	1.00	23.19	N
ATOM	7656	CA	ILE	C	134	-9.670	81.402	60.708	1.00	23.51	C
ATOM	7657	C	ILE	C	134	-10.841	82.140	60.053	1.00	25.09	C
ATOM	7658	O	ILE	C	134	-11.578	82.871	60.717	1.00	24.71	O
ATOM	7659	CB	ILE	C	134	-8.336	82.023	60.254	1.00	21.89	C
ATOM	7660	CG1	ILE	C	134	-7.187	81.409	61.057	1.00	21.52	C
ATOM	7661	CG2	ILE	C	134	-8.373	83.527	60.432	1.00	20.11	C
ATOM	7662	CD1	ILE	C	134	-5.804	81.759	60.536	1.00	20.71	C
ATOM	7663	N	ALA	C	135	-11.023	81.930	58.755	1.00	25.31	N
ATOM	7664	CA	ALA	C	135	-12.110	82.574	58.027	1.00	26.39	C
ATOM	7665	C	ALA	C	135	-13.454	82.318	58.714	1.00	27.37	C
ATOM	7666	O	ALA	C	135	-14.292	83.210	58.799	1.00	26.45	O
ATOM	7667	CB	ALA	C	135	-12.150	82.062	56.585	1.00	26.08	C
ATOM	7668	N	LYS	C	136	-13.654	81.099	59.207	1.00	27.72	N
ATOM	7669	CA	LYS	C	136	-14.904	80.756	59.868	1.00	27.23	C
ATOM	7670	C	LYS	C	136	-15.127	81.548	61.153	1.00	29.53	C
ATOM	7671	O	LYS	C	136	-16.248	81.984	61.422	1.00	30.14	O
ATOM	7672	CB	LYS	C	136	-14.959	79.262	60.173	1.00	27.49	C
ATOM	7673	CG	LYS	C	136	-16.304	78.805	60.710	1.00	27.41	C
ATOM	7674	CD	LYS	C	136	-16.318	77.306	60.949	1.00	29.14	C
ATOM	7675	CE	LYS	C	136	-17.717	76.811	61.291	1.00	28.36	C
ATOM	7676	NZ	LYS	C	136	-17.738	75.338	61.510	1.00	27.69	N
ATOM	7677	N	ILE	C	137	-14.075	81.744	61.946	1.00	29.13	N
ATOM	7678	CA	ILE	C	137	-14.230	82.495	63.187	1.00	29.87	C
ATOM	7679	C	ILE	C	137	-14.255	83.997	62.941	1.00	30.35	C
ATOM	7680	O	ILE	C	137	-14.731	84.753	63.786	1.00	32.32	O
ATOM	7681	CB	ILE	C	137	-13.112	82.188	64.221	1.00	29.53	C
ATOM	7682	CG1	ILE	C	137	-11.752	82.603	63.671	1.00	31.06	C
ATOM	7683	CG2	ILE	C	137	-13.129	80.715	64.586	1.00	28.95	C
ATOM	7684	CD1	ILE	C	137	-10.617	82.447	64.666	1.00	32.35	C
ATOM	7685	N	GLU	C	138	-13.740	84.436	61.798	1.00	29.52	N
ATOM	7686	CA	GLU	C	138	-13.747	85.861	61.482	1.00	30.03	C
ATOM	7687	C	GLU	C	138	-14.968	86.199	60.635	1.00	30.98	C
ATOM	7688	O	GLU	C	138	-15.147	87.342	60.215	1.00	31.18	O
ATOM	7689	CB	GLU	C	138	-12.478	86.264	60.727	1.00	30.09	C
ATOM	7690	CG	GLU	C	138	-11.201	86.026	61.501	1.00	30.46	C
ATOM	7691	CD	GLU	C	138	-9.977	86.563	60.788	1.00	30.88	C
ATOM	7692	OE1	GLU	C	138	-9.901	86.447	59.547	1.00	31.55	O
ATOM	7693	OE2	GLU	C	138	-9.076	87.088	61.475	1.00	33.89	O
ATOM	7694	N	GLY	C	139	-15.812	85.197	60.399	1.00	32.15	N
ATOM	7695	CA	GLY	C	139	-17.005	85.403	59.597	1.00	32.92	C
ATOM	7696	C	GLY	C	139	-16.653	85.892	58.205	1.00	34.35	C
ATOM	7697	O	GLY	C	139	-17.438	86.592	57.561	1.00	34.89	O
ATOM	7698	N	ASP	C	140	-15.460	85.524	57.747	1.00	34.17	N
ATOM	7699	CA	ASP	C	140	-14.973	85.915	56.434	1.00	34.35	C
ATOM	7700	C	ASP	C	140	-15.456	84.939	55.366	1.00	35.92	C
ATOM	7701	O	ASP	C	140	-15.044	83.778	55.345	1.00	36.04	O
ATOM	7702	CB	ASP	C	140	-13.444	85.960	56.448	1.00	33.94	C
ATOM	7703	CG	ASP	C	140	-12.860	86.265	55.093	1.00	34.42	C
ATOM	7704	OD1	ASP	C	140	-13.648	86.383	54.132	1.00	32.55	O
ATOM	7705	OD2	ASP	C	140	-11.618	86.380	54.987	1.00	34.07	O
ATOM	7706	N	THR	C	141	-16.332	85.418	54.484	1.00	36.45	N
ATOM	7707	CA	THR	C	141	-16.871	84.592	53.408	1.00	36.56	C
ATOM	7708	C	THR	C	141	-16.227	84.975	52.080	1.00	36.76	C
ATOM	7709	O	THR	C	141	-16.731	84.646	51.005	1.00	36.38	O
ATOM	7710	CB	THR	C	141	-18.404	84.744	53.300	1.00	37.80	C
ATOM	7711	OG1	THR	C	141	-18.741	86.118	53.077	1.00	40.30	O
ATOM	7712	CG2	THR	C	141	-19.074	84.272	54.577	1.00	36.53	C
ATOM	7713	N	SER	C	142	-15.102	85.675	52.177	1.00	36.58	N
ATOM	7714	CA	SER	C	142	-14.334	86.119	51.022	1.00	36.59	C
ATOM	7715	C	SER	C	142	-14.011	84.970	50.065	1.00	36.15	C
ATOM	7716	O	SER	C	142	-14.088	85.134	48.847	1.00	36.42	O
ATOM	7717	CB	SER	C	142	-13.035	86.778	51.505	1.00	37.05	C
ATOM	7718	OG	SER	C	142	-12.081	86.906	50.467	1.00	42.50	O
ATOM	7719	N	VAL	C	143	-13.645	83.814	50.618	1.00	34.35	N



ATOM	7720	CA	VAL	C	143	-13.302	82.646	49.807	1.00	31.66	C
ATOM	7721	C	VAL	C	143	-14.314	81.530	49.996	1.00	32.01	C
ATOM	7722	O	VAL	C	143	-14.565	81.078	51.116	1.00	33.26	O
ATOM	7723	CB	VAL	C	143	-11.892	82.109	50.156	1.00	31.16	C
ATOM	7724	CG1	VAL	C	143	-11.594	80.850	49.353	1.00	28.00	C
ATOM	7725	CG2	VAL	C	143	-10.848	83.176	49.864	1.00	28.64	C
ATOM	7726	N	GLU	C	144	-14.886	81.082	48.885	1.00	31.93	N
ATOM	7727	CA	GLU	C	144	-15.893	80.030	48.901	1.00	32.45	C
ATOM	7728	C	GLU	C	144	-15.307	78.683	49.312	1.00	30.56	C
ATOM	7729	O	GLU	C	144	-15.870	77.980	50.152	1.00	28.55	O
ATOM	7730	CB	GLU	C	144	-16.540	79.906	47.517	1.00	37.01	C
ATOM	7731	CG	GLU	C	144	-15.665	79.203	46.481	1.00	43.69	C
ATOM	7732	CD	GLU	C	144	-14.323	79.894	46.250	1.00	47.21	C
ATOM	7733	OE1	GLU	C	144	-13.361	79.194	45.855	1.00	45.97	O
ATOM	7734	OE2	GLU	C	144	-14.232	81.130	46.450	1.00	49.38	O
ATOM	7735	N	ASN	C	145	-14.175	78.323	48.719	1.00	28.04	N
ATOM	7736	CA	ASN	C	145	-13.541	77.050	49.036	1.00	26.99	C
ATOM	7737	C	ASN	C	145	-12.055	77.203	49.342	1.00	24.70	C
ATOM	7738	O	ASN	C	145	-11.233	77.303	48.432	1.00	23.34	O
ATOM	7739	CB	ASN	C	145	-13.708	76.074	47.874	1.00	27.00	C
ATOM	7740	CG	ASN	C	145	-13.134	74.703	48.180	1.00	29.87	C
ATOM	7741	OD1	ASN	C	145	-12.683	73.988	47.278	1.00	29.68	O
ATOM	7742	ND2	ASN	C	145	-13.162	74.320	49.454	1.00	26.73	N
ATOM	7743	N	TRP	C	146	-11.707	77.217	50.623	1.00	23.67	N
ATOM	7744	CA	TRP	C	146	-10.305	77.336	50.995	1.00	22.48	C
ATOM	7745	C	TRP	C	146	-9.535	76.085	50.615	1.00	22.31	C
ATOM	7746	O	TRP	C	146	-8.355	76.160	50.273	1.00	21.36	O
ATOM	7747	CB	TRP	C	146	-10.158	77.594	52.489	1.00	22.41	C
ATOM	7748	CG	TRP	C	146	-10.295	79.037	52.817	1.00	21.49	C
ATOM	7749	CD1	TRP	C	146	-11.390	79.664	53.339	1.00	20.81	C
ATOM	7750	CD2	TRP	C	146	-9.319	80.058	52.583	1.00	20.28	C
ATOM	7751	NE1	TRP	C	146	-11.156	81.013	53.444	1.00	21.78	N
ATOM	7752	CE2	TRP	C	146	-9.893	81.284	52.987	1.00	19.74	C
ATOM	7753	CE3	TRP	C	146	-8.013	80.056	52.069	1.00	18.54	C
ATOM	7754	CZ2	TRP	C	146	-9.206	82.502	52.893	1.00	21.32	C
ATOM	7755	CZ3	TRP	C	146	-7.329	81.268	51.975	1.00	20.20	C
ATOM	7756	CH2	TRP	C	146	-7.927	82.474	52.386	1.00	18.12	C
ATOM	7757	N	LEU	C	147	-10.214	74.942	50.662	1.00	21.05	N
ATOM	7758	CA	LEU	C	147	-9.589	73.669	50.320	1.00	21.49	C
ATOM	7759	C	LEU	C	147	-9.512	73.414	48.826	1.00	20.78	C
ATOM	7760	O	LEU	C	147	-10.172	72.519	48.301	1.00	20.30	O
ATOM	7761	CB	LEU	C	147	-10.331	72.522	50.997	1.00	23.30	C
ATOM	7762	CG	LEU	C	147	-9.993	72.402	52.482	1.00	25.73	C
ATOM	7763	CD1	LEU	C	147	-10.856	71.328	53.110	1.00	28.94	C
ATOM	7764	CD2	LEU	C	147	-8.512	72.064	52.639	1.00	26.07	C
ATOM	7765	N	ALA	C	148	-8.694	74.209	48.148	1.00	19.84	N
ATOM	7766	CA	ALA	C	148	-8.506	74.075	46.715	1.00	19.50	C
ATOM	7767	C	ALA	C	148	-7.839	72.732	46.427	1.00	19.31	C
ATOM	7768	O	ALA	C	148	-7.013	72.263	47.207	1.00	18.00	O
ATOM	7769	CB	ALA	C	148	-7.637	75.217	46.202	1.00	17.06	C
ATOM	7770	N	PRO	C	149	-8.193	72.096	45.302	1.00	18.64	N
ATOM	7771	CA	PRO	C	149	-7.609	70.807	44.934	1.00	17.83	C
ATOM	7772	C	PRO	C	149	-6.124	70.964	44.597	1.00	19.00	C
ATOM	7773	O	PRO	C	149	-5.714	71.948	43.965	1.00	18.25	O
ATOM	7774	CB	PRO	C	149	-8.438	70.396	43.721	1.00	18.71	C
ATOM	7775	CG	PRO	C	149	-8.721	71.705	43.074	1.00	17.10	C
ATOM	7776	CD	PRO	C	149	-9.104	72.573	44.248	1.00	19.90	C
ATOM	7777	N	ILE	C	150	-5.324	69.990	45.016	1.00	17.94	N
ATOM	7778	CA	ILE	C	150	-3.890	70.026	44.768	1.00	16.99	C
ATOM	7779	C	ILE	C	150	-3.486	69.003	43.719	1.00	17.76	C
ATOM	7780	O	ILE	C	150	-3.836	67.828	43.829	1.00	20.17	O
ATOM	7781	CB	ILE	C	150	-3.103	69.718	46.060	1.00	18.11	C
ATOM	7782	CG1	ILE	C	150	-3.508	70.703	47.160	1.00	18.05	C
ATOM	7783	CG2	ILE	C	150	-1.605	69.764	45.785	1.00	15.78	C
ATOM	7784	CD1	ILE	C	150	-2.985	70.330	48.541	1.00	17.44	C
ATOM	7785	N	VAL	C	151	-2.765	69.455	42.696	1.00	17.72	N
ATOM	7786	CA	VAL	C	151	-2.267	68.569	41.650	1.00	17.10	C
ATOM	7787	C	VAL	C	151	-0.774	68.440	41.961	1.00	18.30	C
ATOM	7788	O	VAL	C	151	-0.051	69.440	41.951	1.00	18.34	O
ATOM	7789	CB	VAL	C	151	-2.459	69.180	40.243	1.00	18.76	C
ATOM	7790	CG1	VAL	C	151	-1.818	68.287	39.194	1.00	17.66	C
ATOM	7791	CG2	VAL	C	151	-3.930	69.340	39.944	1.00	17.36	C
ATOM	7792	N	ALA	C	152	-0.310	67.225	42.243	1.00	15.83	N
ATOM	7793	CA	ALA	C	152	1.089	67.043	42.599	1.00	16.10	C
ATOM	7794	C	ALA	C	152	1.937	66.275	41.601	1.00	16.47	C
ATOM	7795	O	ALA	C	152	1.449	65.454	40.818	1.00	16.42	O
ATOM	7796	CB	ALA	C	152	1.191	66.391	43.982	1.00	17.22	C
ATOM	7797	N	ASP	C	153	3.229	66.557	41.661	1.00	16.42	N
ATOM	7798	CA	ASP	C	153	4.235	65.958	40.796	1.00	16.79	C
ATOM	7799	C	ASP	C	153	4.670	64.577	41.301	1.00	16.90	C

7-106/7



ATOM	7800	O	ASP	C	153	5.229	64.459	42.388	1.00	17.54	O
ATOM	7801	CB	ASP	C	153	5.443	66.889	40.762	1.00	15.73	C
ATOM	7802	CG	ASP	C	153	6.409	66.562	39.663	1.00	15.78	C
ATOM	7803	OD1	ASP	C	153	6.385	65.424	39.143	1.00	16.04	O
ATOM	7804	OD2	ASP	C	153	7.209	67.457	39.330	1.00	15.91	O
ATOM	7805	N	GLY	C	154	4.416	63.542	40.507	1.00	17.94	N
ATOM	7806	CA	GLY	C	154	4.807	62.196	40.879	1.00	18.17	C
ATOM	7807	C	GLY	C	154	6.086	61.825	40.147	1.00	19.72	C
ATOM	7808	O	GLY	C	154	6.633	60.732	40.330	1.00	18.08	O
ATOM	7809	N	GLU	C	155	6.553	62.746	39.308	1.00	17.90	N
ATOM	7810	CA	GLU	C	155	7.774	62.566	38.526	1.00	19.57	C
ATOM	7811	C	GLU	C	155	7.776	61.250	37.765	1.00	19.23	C
ATOM	7812	O	GLU	C	155	6.852	60.970	37.013	1.00	19.42	O
ATOM	7813	CB	GLU	C	155	9.003	62.646	39.437	1.00	18.98	C
ATOM	7814	CG	GLU	C	155	9.080	63.949	40.215	1.00	22.61	C
ATOM	7815	CD	GLU	C	155	10.476	64.264	40.692	1.00	24.41	C
ATOM	7816	OE1	GLU	C	155	11.361	63.404	40.528	1.00	28.06	O
ATOM	7817	OE2	GLU	C	155	10.692	65.371	41.232	1.00	25.25	O
ATOM	7818	N	ALA	C	156	8.815	60.446	37.959	1.00	19.80	N
ATOM	7819	CA	ALA	C	156	8.906	59.165	37.274	1.00	20.66	C
ATOM	7820	C	ALA	C	156	8.600	57.976	38.192	1.00	19.05	C
ATOM	7821	O	ALA	C	156	8.893	56.836	37.862	1.00	20.96	O
ATOM	7822	CB	ALA	C	156	10.290	59.015	36.643	1.00	19.95	C
ATOM	7823	N	GLY	C	157	8.012	58.245	39.349	1.00	19.54	N
ATOM	7824	CA	GLY	C	157	7.671	57.168	40.263	1.00	18.64	C
ATOM	7825	C	GLY	C	157	8.768	56.683	41.195	1.00	18.78	C
ATOM	7826	O	GLY	C	157	8.495	55.897	42.097	1.00	19.78	O
ATOM	7827	N	PHE	C	158	10.005	57.125	40.977	1.00	18.65	N
ATOM	7828	CA	PHE	C	158	11.135	56.730	41.826	1.00	17.44	C
ATOM	7829	C	PHE	C	158	11.402	55.229	41.830	1.00	17.03	C
ATOM	7830	O	PHE	C	158	11.726	54.648	42.863	1.00	16.35	O
ATOM	7831	CB	PHE	C	158	10.907	57.210	43.264	1.00	15.75	C
ATOM	7832	CG	PHE	C	158	10.925	58.712	43.413	1.00	16.29	C
ATOM	7833	CD1	PHE	C	158	12.108	59.382	43.695	1.00	15.20	C
ATOM	7834	CD2	PHE	C	158	9.754	59.454	43.262	1.00	17.27	C
ATOM	7835	CE1	PHE	C	158	12.130	60.777	43.831	1.00	15.83	C
ATOM	7836	CE2	PHE	C	158	9.761	60.846	43.392	1.00	16.81	C
ATOM	7837	CZ	PHE	C	158	10.951	61.508	43.679	1.00	17.24	C
ATOM	7838	N	GLY	C	159	11.269	54.605	40.670	1.00	15.63	N
ATOM	7839	CA	GLY	C	159	11.501	53.182	40.584	1.00	16.40	C
ATOM	7840	C	GLY	C	159	10.496	52.500	39.684	1.00	17.02	C
ATOM	7841	O	GLY	C	159	10.126	53.030	38.634	1.00	17.47	O
ATOM	7842	N	GLY	C	160	10.051	51.321	40.104	1.00	18.43	N
ATOM	7843	CA	GLY	C	160	9.093	50.560	39.322	1.00	18.55	C
ATOM	7844	C	GLY	C	160	7.648	50.796	39.716	1.00	19.69	C
ATOM	7845	O	GLY	C	160	7.319	51.752	40.424	1.00	20.60	O
ATOM	7846	N	ALA	C	161	6.779	49.907	39.255	1.00	19.28	N
ATOM	7847	CA	ALA	C	161	5.357	50.006	39.529	1.00	18.89	C
ATOM	7848	C	ALA	C	161	5.044	50.071	41.015	1.00	18.32	C
ATOM	7849	O	ALA	C	161	4.090	50.734	41.421	1.00	19.56	O
ATOM	7850	CB	ALA	C	161	4.627	48.823	38.894	1.00	18.84	C
ATOM	7851	N	LEU	C	162	5.838	49.381	41.825	1.00	18.02	N
ATOM	7852	CA	LEU	C	162	5.601	49.366	43.263	1.00	17.33	C
ATOM	7853	C	LEU	C	162	5.964	50.691	43.933	1.00	16.81	C
ATOM	7854	O	LEU	C	162	5.309	51.099	44.894	1.00	15.83	O
ATOM	7855	CB	LEU	C	162	6.364	48.216	43.914	1.00	17.62	C
ATOM	7856	CG	LEU	C	162	5.983	46.814	43.435	1.00	19.60	C
ATOM	7857	CD1	LEU	C	162	6.801	45.794	44.204	1.00	18.88	C
ATOM	7858	CD2	LEU	C	162	4.494	46.563	43.643	1.00	20.86	C
ATOM	7859	N	ASN	C	163	7.002	51.357	43.435	1.00	15.27	N
ATOM	7860	CA	ASN	C	163	7.400	52.653	43.981	1.00	16.09	C
ATOM	7861	C	ASN	C	163	6.298	53.639	43.595	1.00	15.14	C
ATOM	7862	O	ASN	C	163	5.918	54.508	44.380	1.00	14.61	O
ATOM	7863	CB	ASN	C	163	8.735	53.116	43.379	1.00	15.21	C
ATOM	7864	CG	ASN	C	163	9.903	52.245	43.805	1.00	16.18	C
ATOM	7865	OD1	ASN	C	163	10.459	52.420	44.891	1.00	17.51	O
ATOM	7866	ND2	ASN	C	163	10.270	51.290	42.959	1.00	11.50	N
ATOM	7867	N	VAL	C	164	5.801	53.490	42.370	1.00	14.82	N
ATOM	7868	CA	VAL	C	164	4.736	54.333	41.841	1.00	15.52	C
ATOM	7869	C	VAL	C	164	3.522	54.198	42.751	1.00	15.98	C
ATOM	7870	O	VAL	C	164	2.937	55.189	43.193	1.00	16.42	O
ATOM	7871	CB	VAL	C	164	4.333	53.882	40.407	1.00	16.27	C
ATOM	7872	CG1	VAL	C	164	3.005	54.527	39.991	1.00	15.62	C
ATOM	7873	CG2	VAL	C	164	5.426	54.249	39.422	1.00	13.43	C
ATOM	7874	N	TYR	C	165	3.158	52.953	43.029	1.00	16.22	N
ATOM	7875	CA	TYR	C	165	2.019	52.663	43.877	1.00	16.27	C
ATOM	7876	C	TYR	C	165	2.151	53.340	45.244	1.00	16.78	C
ATOM	7877	O	TYR	C	165	1.224	54.006	45.706	1.00	17.20	O
ATOM	7878	CB	TYR	C	165	1.868	51.146	44.036	1.00	14.98	C
ATOM	7879	CG	TYR	C	165	0.685	50.742	44.890	1.00	15.80	C



ATOM	7880	CD1	TYR	C	165	0.754	50.789	46.284	1.00	14.17	C
ATOM	7881	CD2	TYR	C	165	-0.528	50.379	44.302	1.00	16.20	C
ATOM	7882	CE1	TYR	C	165	-0.356	50.493	47.071	1.00	17.11	C
ATOM	7883	CE2	TYR	C	165	-1.646	50.080	45.078	1.00	14.84	C
ATOM	7884	CZ	TYR	C	165	-1.558	50.142	46.459	1.00	18.00	C
ATOM	7885	OH	TYR	C	165	-2.678	49.888	47.227	1.00	16.87	O
ATOM	7886	N	GLU	C	166	3.305	53.183	45.884	1.00	16.79	N
ATOM	7887	CA	GLU	C	166	3.526	53.774	47.195	1.00	15.77	C
ATOM	7888	C	GLU	C	166	3.491	55.299	47.191	1.00	14.71	C
ATOM	7889	O	GLU	C	166	3.021	55.909	48.149	1.00	14.83	O
ATOM	7890	CB	GLU	C	166	4.855	53.274	47.781	1.00	17.97	C
ATOM	7891	CG	GLU	C	166	4.786	51.844	48.293	1.00	16.35	C
ATOM	7892	CD	GLU	C	166	3.621	51.636	49.237	1.00	16.99	C
ATOM	7893	OE1	GLU	C	166	3.533	52.374	50.242	1.00	16.40	O
ATOM	7894	OE2	GLU	C	166	2.793	50.739	48.975	1.00	15.33	O
ATOM	7895	N	LEU	C	167	3.988	55.917	46.124	1.00	13.88	N
ATOM	7896	CA	LEU	C	167	3.970	57.374	46.037	1.00	14.37	C
ATOM	7897	C	LEU	C	167	2.525	57.876	45.910	1.00	12.36	C
ATOM	7898	O	LEU	C	167	2.130	58.809	46.598	1.00	14.37	O
ATOM	7899	CB	LEU	C	167	4.812	57.856	44.842	1.00	14.17	C
ATOM	7900	CG	LEU	C	167	4.786	59.365	44.564	1.00	16.47	C
ATOM	7901	CD1	LEU	C	167	5.070	60.137	45.849	1.00	13.38	C
ATOM	7902	CD2	LEU	C	167	5.824	59.711	43.484	1.00	15.90	C
ATOM	7903	N	GLN	C	168	1.744	57.246	45.037	1.00	13.22	N
ATOM	7904	CA	GLN	C	168	0.343	57.622	44.838	1.00	12.80	C
ATOM	7905	C	GLN	C	168	-0.441	57.443	46.144	1.00	14.45	C
ATOM	7906	O	GLN	C	168	-1.255	58.284	46.516	1.00	13.31	O
ATOM	7907	CB	GLN	C	168	-0.277	56.750	43.743	1.00	13.04	C
ATOM	7908	CG	GLN	C	168	-1.766	56.987	43.525	1.00	13.86	C
ATOM	7909	CD	GLN	C	168	-2.074	58.286	42.779	1.00	17.29	C
ATOM	7910	OE1	GLN	C	168	-1.557	59.361	43.113	1.00	16.04	O
ATOM	7911	NE2	GLN	C	168	-2.935	58.189	41.766	1.00	13.57	N
ATOM	7912	N	LYS	C	169	-0.185	56.335	46.836	1.00	13.89	N
ATOM	7913	CA	LYS	C	169	-0.846	56.050	48.100	1.00	13.48	C
ATOM	7914	C	LYS	C	169	-0.477	57.111	49.137	1.00	14.00	C
ATOM	7915	O	LYS	C	169	-1.321	57.547	49.921	1.00	15.49	O
ATOM	7916	CB	LYS	C	169	-0.443	54.648	48.595	1.00	14.53	C
ATOM	7917	CG	LYS	C	169	-0.954	54.282	49.986	1.00	14.63	C
ATOM	7918	CD	LYS	C	169	-0.544	52.860	50.351	1.00	14.94	C
ATOM	7919	CE	LYS	C	169	-0.859	52.543	51.800	1.00	17.38	C
ATOM	7920	NZ	LYS	C	169	-0.579	51.116	52.125	1.00	18.71	N
ATOM	7921	N	ALA	C	170	0.783	57.531	49.141	1.00	13.11	N
ATOM	7922	CA	ALA	C	170	1.226	58.543	50.089	1.00	13.65	C
ATOM	7923	C	ALA	C	170	0.616	59.910	49.757	1.00	13.40	C
ATOM	7924	O	ALA	C	170	0.218	60.661	50.652	1.00	13.24	O
ATOM	7925	CB	ALA	C	170	2.759	58.626	50.090	1.00	13.24	C
ATOM	7926	N	LEU	C	171	0.557	60.230	48.467	1.00	12.87	N
ATOM	7927	CA	LEU	C	171	-0.013	61.496	48.017	1.00	13.66	C
ATOM	7928	C	LEU	C	171	-1.479	61.566	48.428	1.00	14.90	C
ATOM	7929	O	LEU	C	171	-1.969	62.617	48.852	1.00	14.38	O
ATOM	7930	CB	LEU	C	171	0.087	61.621	46.494	1.00	13.01	C
ATOM	7931	CG	LEU	C	171	1.484	61.794	45.899	1.00	12.61	C
ATOM	7932	CD1	LEU	C	171	1.393	61.762	44.389	1.00	11.74	C
ATOM	7933	CD2	LEU	C	171	2.093	63.118	46.372	1.00	13.13	C
ATOM	7934	N	ILE	C	172	-2.174	60.439	48.295	1.00	14.67	N
ATOM	7935	CA	ILE	C	172	-3.580	60.369	48.656	1.00	14.76	C
ATOM	7936	C	ILE	C	172	-3.778	60.526	50.159	1.00	15.21	C
ATOM	7937	O	ILE	C	172	-4.686	61.234	50.597	1.00	16.04	O
ATOM	7938	CB	ILE	C	172	-4.205	59.038	48.195	1.00	15.43	C
ATOM	7939	CG1	ILE	C	172	-4.343	59.040	46.672	1.00	13.67	C
ATOM	7940	CG2	ILE	C	172	-5.572	58.837	48.859	1.00	13.85	C
ATOM	7941	CD1	ILE	C	172	-4.714	57.702	46.095	1.00	9.94	C
ATOM	7942	N	ALA	C	173	-2.931	59.873	50.950	1.00	14.57	N
ATOM	7943	CA	ALA	C	173	-3.053	59.972	52.395	1.00	14.93	C
ATOM	7944	C	ALA	C	173	-2.848	61.429	52.831	1.00	17.20	C
ATOM	7945	O	ALA	C	173	-3.408	61.872	53.833	1.00	18.29	O
ATOM	7946	CB	ALA	C	173	-2.042	59.060	53.070	1.00	14.74	C
ATOM	7947	N	ALA	C	174	-2.061	62.175	52.061	1.00	17.81	N
ATOM	7948	CA	ALA	C	174	-1.788	63.578	52.370	1.00	16.39	C
ATOM	7949	C	ALA	C	174	-2.900	64.487	51.861	1.00	15.99	C
ATOM	7950	O	ALA	C	174	-2.906	65.682	52.147	1.00	14.40	O
ATOM	7951	CB	ALA	C	174	-0.440	64.006	51.772	1.00	16.03	C
ATOM	7952	N	GLY	C	175	-3.831	63.917	51.100	1.00	16.85	N
ATOM	7953	CA	GLY	C	175	-4.960	64.684	50.596	1.00	13.85	C
ATOM	7954	C	GLY	C	175	-4.809	65.317	49.228	1.00	15.67	C
ATOM	7955	O	GLY	C	175	-5.336	66.405	48.995	1.00	16.07	O
ATOM	7956	N	VAL	C	176	-4.103	64.647	48.321	1.00	15.38	N
ATOM	7957	CA	VAL	C	176	-3.894	65.169	46.971	1.00	14.78	C
ATOM	7958	C	VAL	C	176	-5.174	64.977	46.161	1.00	16.76	C
ATOM	7959	O	VAL	C	176	-5.971	64.083	46.456	1.00	16.94	O



ATOM	7960	CB	VAL	C	176	-2.725	64.425	46.255	1.00	14.98	C
ATOM	7961	CG1	VAL	C	176	-3.211	63.095	45.689	1.00	13.23	C
ATOM	7962	CG2	VAL	C	176	-2.139	65.291	45.154	1.00	15.21	C
ATOM	7963	N	ALA	C	177	-5.368	65.812	45.144	1.00	17.01	N
ATOM	7964	CA	ALA	C	177	-6.551	65.721	44.294	1.00	18.60	C
ATOM	7965	C	ALA	C	177	-6.207	65.035	42.975	1.00	19.29	C
ATOM	7966	O	ALA	C	177	-7.016	64.287	42.417	1.00	18.62	O
ATOM	7967	CB	ALA	C	177	-7.116	67.119	44.023	1.00	19.05	C
ATOM	7968	N	GLY	C	178	-5.003	65.305	42.480	1.00	18.20	N
ATOM	7969	CA	GLY	C	178	-4.553	64.715	41.234	1.00	18.43	C
ATOM	7970	C	GLY	C	178	-3.041	64.601	41.251	1.00	18.04	C
ATOM	7971	O	GLY	C	178	-2.381	65.295	42.017	1.00	18.79	O
ATOM	7972	N	SER	C	179	-2.489	63.728	40.417	1.00	17.74	N
ATOM	7973	CA	SER	C	179	-1.043	63.542	40.362	1.00	17.44	C
ATOM	7974	C	SER	C	179	-0.629	63.217	38.937	1.00	16.54	C
ATOM	7975	O	SER	C	179	-1.379	62.574	38.206	1.00	15.36	O
ATOM	7976	CB	SER	C	179	-0.626	62.405	41.305	1.00	17.27	C
ATOM	7977	OG	SER	C	179	-1.371	61.225	41.046	1.00	17.18	O
ATOM	7978	N	HIS	C	180	0.560	63.663	38.534	1.00	18.15	N
ATOM	7979	CA	HIS	C	180	1.029	63.390	37.182	1.00	16.61	C
ATOM	7980	C	HIS	C	180	2.263	62.506	37.151	1.00	15.98	C
ATOM	7981	O	HIS	C	180	3.083	62.526	38.067	1.00	16.81	O
ATOM	7982	CB	HIS	C	180	1.269	64.692	36.396	1.00	16.79	C
ATOM	7983	CG	HIS	C	180	2.399	65.533	36.903	1.00	16.66	C
ATOM	7984	ND1	HIS	C	180	2.199	66.664	37.665	1.00	19.45	N
ATOM	7985	CD2	HIS	C	180	3.732	65.466	36.675	1.00	18.10	C
ATOM	7986	CE1	HIS	C	180	3.358	67.262	37.876	1.00	19.15	C
ATOM	7987	NE2	HIS	C	180	4.304	66.555	37.285	1.00	18.58	N
ATOM	7988	N	TRP	C	181	2.378	61.731	36.078	1.00	14.97	N
ATOM	7989	CA	TRP	C	181	3.457	60.767	35.909	1.00	15.34	C
ATOM	7990	C	TRP	C	181	4.035	60.843	34.497	1.00	16.07	C
ATOM	7991	O	TRP	C	181	3.294	60.875	33.513	1.00	16.94	O
ATOM	7992	CB	TRP	C	181	2.902	59.363	36.195	1.00	15.85	C
ATOM	7993	CG	TRP	C	181	2.046	59.332	37.437	1.00	15.56	C
ATOM	7994	CD1	TRP	C	181	0.751	59.757	37.549	1.00	14.69	C
ATOM	7995	CD2	TRP	C	181	2.467	58.977	38.766	1.00	15.79	C
ATOM	7996	NE1	TRP	C	181	0.343	59.701	38.862	1.00	17.23	N
ATOM	7997	CE2	TRP	C	181	1.375	59.228	39.631	1.00	16.59	C
ATOM	7998	CE3	TRP	C	181	3.659	58.479	39.310	1.00	15.31	C
ATOM	7999	CZ2	TRP	C	181	1.442	58.999	41.015	1.00	16.02	C
ATOM	8000	CZ3	TRP	C	181	3.725	58.251	40.692	1.00	13.67	C
ATOM	8001	CH2	TRP	C	181	2.624	58.513	41.524	1.00	15.39	C
ATOM	8002	N	GLU	C	182	5.362	60.861	34.409	1.00	16.35	N
ATOM	8003	CA	GLU	C	182	6.064	60.980	33.134	1.00	16.76	C
ATOM	8004	C	GLU	C	182	6.780	59.703	32.703	1.00	18.41	C
ATOM	8005	O	GLU	C	182	7.252	58.925	33.534	1.00	19.59	O
ATOM	8006	CB	GLU	C	182	7.073	62.121	33.233	1.00	18.81	C
ATOM	8007	CG	GLU	C	182	8.096	61.901	34.346	1.00	17.56	C
ATOM	8008	CD	GLU	C	182	8.607	63.196	34.909	1.00	19.95	C
ATOM	8009	OE1	GLU	C	182	7.768	64.074	35.205	1.00	23.16	O
ATOM	8010	OE2	GLU	C	182	9.837	63.338	35.066	1.00	20.70	O
ATOM	8011	N	ASP	C	183	6.883	59.517	31.392	1.00	18.72	N
ATOM	8012	CA	ASP	C	183	7.511	58.336	30.823	1.00	19.41	C
ATOM	8013	C	ASP	C	183	9.036	58.386	30.702	1.00	21.66	C
ATOM	8014	O	ASP	C	183	9.590	58.085	29.646	1.00	22.70	O
ATOM	8015	CB	ASP	C	183	6.898	58.033	29.453	1.00	19.63	C
ATOM	8016	CG	ASP	C	183	6.888	59.241	28.528	1.00	20.68	C
ATOM	8017	OD1	ASP	C	183	7.635	60.205	28.785	1.00	23.31	O
ATOM	8018	OD2	ASP	C	183	6.138	59.221	27.528	1.00	23.02	O
ATOM	8019	N	GLN	C	184	9.711	58.754	31.787	1.00	23.18	N
ATOM	8020	CA	GLN	C	184	11.173	58.813	31.812	1.00	23.23	C
ATOM	8021	C	GLN	C	184	11.742	57.731	32.721	1.00	25.33	C
ATOM	8022	O	GLN	C	184	11.050	57.213	33.603	1.00	25.92	O
ATOM	8023	CB	GLN	C	184	11.669	60.149	32.364	1.00	23.15	C
ATOM	8024	CG	GLN	C	184	11.488	61.356	31.487	1.00	21.66	C
ATOM	8025	CD	GLN	C	184	12.107	62.579	32.127	1.00	22.52	C
ATOM	8026	OE1	GLN	C	184	13.302	62.596	32.408	1.00	21.42	O
ATOM	8027	NE2	GLN	C	184	11.298	63.604	32.371	1.00	20.44	N
ATOM	8028	N	LEU	C	185	13.010	57.396	32.504	1.00	25.39	N
ATOM	8029	CA	LEU	C	185	13.688	56.426	33.348	1.00	25.65	C
ATOM	8030	C	LEU	C	185	13.911	57.178	34.662	1.00	25.92	C
ATOM	8031	O	LEU	C	185	14.522	58.253	34.673	1.00	26.84	O
ATOM	8032	CB	LEU	C	185	15.029	56.026	32.731	1.00	26.15	C
ATOM	8033	CG	LEU	C	185	15.920	55.095	33.556	1.00	25.73	C
ATOM	8034	CD1	LEU	C	185	15.168	53.820	33.922	1.00	23.88	C
ATOM	8035	CD2	LEU	C	185	17.167	54.775	32.757	1.00	25.54	C
ATOM	8036	N	ALA	C	186	13.397	56.631	35.759	1.00	24.72	N
ATOM	8037	CA	ALA	C	186	13.517	57.279	37.059	1.00	25.95	C
ATOM	8038	C	ALA	C	186	14.961	57.596	37.448	1.00	25.78	C
ATOM	8039	O	ALA	C	186	15.269	58.725	37.831	1.00	24.63	O



ATOM	8040	CB	ALA	C	186	12.856	56.423	38.134	1.00	24.17	C
ATOM	8041	N	SER	C	187	15.841	56.606	37.333	1.00	26.10	N
ATOM	8042	CA	SER	C	187	17.249	56.778	37.685	1.00	26.96	C
ATOM	8043	C	SER	C	187	17.974	57.877	36.900	1.00	27.58	C
ATOM	8044	O	SER	C	187	19.032	58.340	37.318	1.00	28.39	O
ATOM	8045	CB	SER	C	187	17.991	55.448	37.515	1.00	26.23	C
ATOM	8046	OG	SER	C	187	17.871	54.959	36.192	1.00	27.65	O
ATOM	8047	N	GLU	C	188	17.416	58.289	35.766	1.00	27.25	N
ATOM	8048	CA	GLU	C	188	18.033	59.340	34.956	1.00	28.98	C
ATOM	8049	C	GLU	C	188	17.041	60.476	34.722	1.00	29.37	C
ATOM	8050	O	GLU	C	188	17.199	61.265	33.788	1.00	30.64	O
ATOM	8051	CB	GLU	C	188	18.479	58.788	33.599	1.00	28.90	C
ATOM	8052	CG	GLU	C	188	19.465	57.641	33.652	1.00	29.50	C
ATOM	8053	CD	GLU	C	188	20.785	58.032	34.280	1.00	31.81	C
ATOM	8054	OE1	GLU	C	188	21.244	59.173	34.055	1.00	33.88	O
ATOM	8055	OE2	GLU	C	188	21.373	57.190	34.988	1.00	32.43	O
ATOM	8056	N	LYS	C	189	16.017	60.543	35.569	1.00	29.47	N
ATOM	8057	CA	LYS	C	189	14.983	61.564	35.466	1.00	28.92	C
ATOM	8058	C	LYS	C	189	15.590	62.946	35.285	1.00	31.09	C
ATOM	8059	O	LYS	C	189	16.514	63.339	36.003	1.00	31.66	O
ATOM	8060	CB	LYS	C	189	14.091	61.537	36.715	1.00	27.91	C
ATOM	8061	CG	LYS	C	189	12.927	62.525	36.724	1.00	26.92	C
ATOM	8062	CD	LYS	C	189	13.376	63.942	37.074	1.00	27.77	C
ATOM	8063	CE	LYS	C	189	12.193	64.845	37.425	1.00	27.59	C
ATOM	8064	NZ	LYS	C	189	11.271	65.074	36.276	1.00	27.00	N
ATOM	8065	N	LYS	C	190	15.065	63.675	34.307	1.00	32.34	N
ATOM	8066	CA	LYS	C	190	15.525	65.025	34.008	1.00	33.83	C
ATOM	8067	C	LYS	C	190	14.324	65.947	34.026	1.00	34.53	C
ATOM	8068	O	LYS	C	190	13.184	65.509	33.845	1.00	34.10	O
ATOM	8069	CB	LYS	C	190	16.164	65.095	32.618	1.00	33.81	C
ATOM	8070	CG	LYS	C	190	17.431	64.286	32.443	1.00	34.30	C
ATOM	8071	CD	LYS	C	190	18.556	64.830	33.290	1.00	33.90	C
ATOM	8072	CE	LYS	C	190	19.853	64.146	32.923	1.00	35.26	C
ATOM	8073	NZ	LYS	C	190	19.723	62.663	32.989	1.00	36.28	N
ATOM	8074	N	SER	C	191	14.587	67.228	34.251	1.00	35.61	N
ATOM	8075	CA	SER	C	191	13.529	68.219	34.258	1.00	34.70	C
ATOM	8076	C	SER	C	191	13.044	68.290	32.820	1.00	34.94	C
ATOM	8077	O	SER	C	191	13.827	68.097	31.885	1.00	34.85	O
ATOM	8078	CB	SER	C	191	14.080	69.570	34.690	1.00	36.26	C
ATOM	8079	OG	SER	C	191	13.051	70.529	34.752	1.00	38.60	O
ATOM	8080	N	GLY	C	192	11.758	68.557	32.644	1.00	35.06	N
ATOM	8081	CA	GLY	C	192	11.195	68.631	31.307	1.00	35.23	C
ATOM	8082	C	GLY	C	192	12.000	69.439	30.305	1.00	34.93	C
ATOM	8083	O	GLY	C	192	12.039	69.099	29.121	1.00	35.90	O
ATOM	8084	N	HIS	C	193	12.661	70.495	30.768	1.00	34.78	N
ATOM	8085	CA	HIS	C	193	13.433	71.339	29.866	1.00	34.60	C
ATOM	8086	C	HIS	C	193	14.953	71.267	30.000	1.00	34.58	C
ATOM	8087	O	HIS	C	193	15.664	72.215	29.668	1.00	34.36	O
ATOM	8088	CB	HIS	C	193	12.929	72.776	29.987	1.00	33.48	C
ATOM	8089	CG	HIS	C	193	11.451	72.894	29.771	1.00	32.65	C
ATOM	8090	ND1	HIS	C	193	10.542	72.860	30.806	1.00	30.08	N
ATOM	8091	CD2	HIS	C	193	10.719	72.922	28.631	1.00	32.14	C
ATOM	8092	CE1	HIS	C	193	9.316	72.856	30.315	1.00	30.68	C
ATOM	8093	NE2	HIS	C	193	9.396	72.891	28.996	1.00	29.17	N
ATOM	8094	N	LEU	C	194	15.442	70.127	30.483	1.00	34.98	N
ATOM	8095	CA	LEU	C	194	16.878	69.885	30.621	1.00	34.00	C
ATOM	8096	C	LEU	C	194	17.192	68.795	29.604	1.00	34.73	C
ATOM	8097	O	LEU	C	194	16.288	68.073	29.173	1.00	34.18	O
ATOM	8098	CB	LEU	C	194	17.230	69.382	32.030	1.00	33.68	C
ATOM	8099	CG	LEU	C	194	17.200	70.362	33.214	1.00	34.87	C
ATOM	8100	CD1	LEU	C	194	17.574	69.633	34.506	1.00	35.09	C
ATOM	8101	CD2	LEU	C	194	18.173	71.498	32.957	1.00	33.51	C
ATOM	8102	N	GLY	C	195	18.460	68.670	29.221	1.00	34.51	N
ATOM	8103	CA	GLY	C	195	18.835	67.649	28.258	1.00	34.98	C
ATOM	8104	C	GLY	C	195	19.155	66.296	28.876	1.00	34.93	C
ATOM	8105	O	GLY	C	195	19.112	66.130	30.097	1.00	36.58	O
ATOM	8106	N	GLY	C	196	19.466	65.324	28.020	1.00	34.19	N
ATOM	8107	CA	GLY	C	196	19.806	63.987	28.473	1.00	32.66	C
ATOM	8108	C	GLY	C	196	18.654	63.158	29.010	1.00	32.10	C
ATOM	8109	O	GLY	C	196	18.870	62.274	29.838	1.00	33.72	O
ATOM	8110	N	LYS	C	197	17.435	63.428	28.546	1.00	29.16	N
ATOM	8111	CA	LYS	C	197	16.270	62.687	29.022	1.00	25.67	C
ATOM	8112	C	LYS	C	197	16.204	61.304	28.388	1.00	24.39	C
ATOM	8113	O	LYS	C	197	16.490	61.133	27.198	1.00	22.74	O
ATOM	8114	CB	LYS	C	197	14.976	63.470	28.741	1.00	24.16	C
ATOM	8115	CG	LYS	C	197	14.947	64.846	29.407	1.00	25.50	C
ATOM	8116	CD	LYS	C	197	13.553	65.466	29.463	1.00	24.91	C
ATOM	8117	CE	LYS	C	197	12.992	65.752	28.084	1.00	24.00	C
ATOM	8118	NZ	LYS	C	197	11.659	66.421	28.175	1.00	23.77	N
ATOM	8119	N	VAL	C	198	15.839	60.315	29.196	1.00	23.18	N



ATOM	8120	CA	VAL	C	198	15.742	58.940	28.729	1.00	21.30	C
ATOM	8121	C	VAL	C	198	14.320	58.436	28.943	1.00	21.49	C
ATOM	8122	O	VAL	C	198	13.826	58.402	30.071	1.00	22.24	O
ATOM	8123	CB	VAL	C	198	16.728	58.037	29.490	1.00	22.43	C
ATOM	8124	CG1	VAL	C	198	16.696	56.627	28.918	1.00	24.31	C
ATOM	8125	CG2	VAL	C	198	18.133	58.614	29.401	1.00	22.39	C
ATOM	8126	N	LEU	C	199	13.656	58.060	27.855	1.00	20.15	N
ATOM	8127	CA	LEU	C	199	12.285	57.566	27.935	1.00	19.91	C
ATOM	8128	C	LEU	C	199	12.269	56.079	28.285	1.00	20.13	C
ATOM	8129	O	LEU	C	199	13.280	55.383	28.145	1.00	20.05	O
ATOM	8130	CB	LEU	C	199	11.566	57.753	26.587	1.00	17.16	C
ATOM	8131	CG	LEU	C	199	11.414	59.131	25.933	1.00	18.35	C
ATOM	8132	CD1	LEU	C	199	10.606	58.975	24.644	1.00	17.81	C
ATOM	8133	CD2	LEU	C	199	10.708	60.108	26.876	1.00	14.31	C
ATOM	8134	N	ILE	C	200	11.124	55.600	28.753	1.00	19.26	N
ATOM	8135	CA	ILE	C	200	10.966	54.179	29.035	1.00	19.68	C
ATOM	8136	C	ILE	C	200	9.935	53.692	28.017	1.00	19.40	C
ATOM	8137	O	ILE	C	200	9.272	54.503	27.363	1.00	17.99	O
ATOM	8138	CB	ILE	C	200	10.491	53.904	30.491	1.00	18.99	C
ATOM	8139	CG1	ILE	C	200	9.368	54.855	30.895	1.00	21.61	C
ATOM	8140	CG2	ILE	C	200	11.650	54.056	31.437	1.00	20.24	C
ATOM	8141	CD1	ILE	C	200	8.029	54.502	30.333	1.00	23.90	C
ATOM	8142	N	PRO	C	201	9.805	52.371	27.842	1.00	18.47	N
ATOM	8143	CA	PRO	C	201	8.832	51.850	26.875	1.00	17.84	C
ATOM	8144	C	PRO	C	201	7.405	52.328	27.126	1.00	19.86	C
ATOM	8145	O	PRO	C	201	6.997	52.524	28.277	1.00	18.18	O
ATOM	8146	CB	PRO	C	201	8.975	50.341	27.028	1.00	14.87	C
ATOM	8147	CG	PRO	C	201	10.430	50.192	27.345	1.00	16.05	C
ATOM	8148	CD	PRO	C	201	10.644	51.283	28.374	1.00	17.30	C
ATOM	8149	N	THR	C	202	6.655	52.517	26.039	1.00	17.90	N
ATOM	8150	CA	THR	C	202	5.280	52.974	26.132	1.00	18.57	C
ATOM	8151	C	THR	C	202	4.477	52.123	27.098	1.00	18.59	C
ATOM	8152	O	THR	C	202	3.747	52.645	27.933	1.00	20.36	O
ATOM	8153	CB	THR	C	202	4.592	52.957	24.752	1.00	16.55	C
ATOM	8154	OG1	THR	C	202	5.101	54.036	23.962	1.00	18.96	O
ATOM	8155	CG2	THR	C	202	3.082	53.110	24.892	1.00	13.03	C
ATOM	8156	N	GLN	C	203	4.622	50.811	26.985	1.00	20.56	N
ATOM	8157	CA	GLN	C	203	3.897	49.885	27.849	1.00	21.75	C
ATOM	8158	C	GLN	C	203	4.302	50.036	29.319	1.00	21.69	C
ATOM	8159	O	GLN	C	203	3.479	49.867	30.218	1.00	21.92	O
ATOM	8160	CB	GLN	C	203	4.124	48.444	27.370	1.00	22.27	C
ATOM	8161	CG	GLN	C	203	3.266	47.373	28.054	1.00	25.08	C
ATOM	8162	CD	GLN	C	203	1.760	47.660	28.007	1.00	24.60	C
ATOM	8163	OE1	GLN	C	203	1.223	48.089	26.988	1.00	25.54	O
ATOM	8164	NE2	GLN	C	203	1.078	47.400	29.114	1.00	24.35	N
ATOM	8165	N	GLN	C	204	5.565	50.357	29.575	1.00	21.51	N
ATOM	8166	CA	GLN	C	204	5.996	50.521	30.956	1.00	19.14	C
ATOM	8167	C	GLN	C	204	5.265	51.721	31.558	1.00	19.08	C
ATOM	8168	O	GLN	C	204	4.830	51.682	32.711	1.00	18.82	O
ATOM	8169	CB	GLN	C	204	7.510	50.733	31.043	1.00	19.23	C
ATOM	8170	CG	GLN	C	204	8.043	50.695	32.472	1.00	20.99	C
ATOM	8171	CD	GLN	C	204	9.556	50.824	32.554	1.00	22.35	C
ATOM	8172	OE1	GLN	C	204	10.278	50.366	31.669	1.00	23.34	O
ATOM	8173	NE2	GLN	C	204	10.041	51.438	33.631	1.00	22.26	N
ATOM	8174	N	HIS	C	205	5.102	52.788	30.785	1.00	17.05	N
ATOM	8175	CA	HIS	C	205	4.408	53.933	31.350	1.00	18.15	C
ATOM	8176	C	HIS	C	205	2.929	53.636	31.543	1.00	18.30	C
ATOM	8177	O	HIS	C	205	2.272	54.241	32.391	1.00	16.69	O
ATOM	8178	CB	HIS	C	205	4.558	55.184	30.498	1.00	17.28	C
ATOM	8179	CG	HIS	C	205	4.250	56.432	31.258	1.00	19.21	C
ATOM	8180	ND1	HIS	C	205	3.418	57.419	30.776	1.00	19.40	N
ATOM	8181	CD2	HIS	C	205	4.638	56.835	32.491	1.00	16.66	C
ATOM	8182	CE1	HIS	C	205	3.307	58.377	31.680	1.00	19.16	C
ATOM	8183	NE2	HIS	C	205	4.038	58.046	32.730	1.00	20.72	N
ATOM	8184	N	ILE	C	206	2.397	52.710	30.753	1.00	17.94	N
ATOM	8185	CA	ILE	C	206	1.006	52.336	30.918	1.00	17.26	C
ATOM	8186	C	ILE	C	206	0.926	51.557	32.234	1.00	18.04	C
ATOM	8187	O	ILE	C	206	-0.082	51.620	32.940	1.00	19.05	O
ATOM	8188	CB	ILE	C	206	0.501	51.475	29.735	1.00	18.42	C
ATOM	8189	CG1	ILE	C	206	0.245	52.379	28.521	1.00	18.65	C
ATOM	8190	CG2	ILE	C	206	-0.773	50.738	30.130	1.00	17.27	C
ATOM	8191	CD1	ILE	C	206	-0.116	51.635	27.248	1.00	19.83	C
ATOM	8192	N	ARG	C	207	1.987	50.829	32.574	1.00	17.61	N
ATOM	8193	CA	ARG	C	207	1.987	50.098	33.842	1.00	18.73	C
ATOM	8194	C	ARG	C	207	1.994	51.130	34.965	1.00	17.01	C
ATOM	8195	O	ARG	C	207	1.285	50.984	35.957	1.00	15.47	O
ATOM	8196	CB	ARG	C	207	3.208	49.174	33.971	1.00	21.10	C
ATOM	8197	CG	ARG	C	207	3.075	47.860	33.198	1.00	26.24	C
ATOM	8198	CD	ARG	C	207	4.095	46.819	33.663	1.00	32.61	C
ATOM	8199	NE	ARG	C	207	5.462	47.128	33.242	1.00	35.22	N



ATOM	8200	CZ	ARG	C	207	5.939	46.922	32.016	1.00	35.49	C
ATOM	8201	NH1	ARG	C	207	5.159	46.398	31.077	1.00	33.85	N
ATOM	8202	NH2	ARG	C	207	7.197	47.244	31.728	1.00	34.46	N
ATOM	8203	N	THR	C	208	2.782	52.187	34.793	1.00	15.67	N
ATOM	8204	CA	THR	C	208	2.848	53.245	35.796	1.00	15.26	C
ATOM	8205	C	THR	C	208	1.458	53.857	36.001	1.00	13.50	C
ATOM	8206	O	THR	C	208	0.993	53.999	37.128	1.00	12.22	O
ATOM	8207	CB	THR	C	208	3.845	54.356	35.377	1.00	13.54	C
ATOM	8208	OG1	THR	C	208	5.189	53.880	35.535	1.00	19.27	O
ATOM	8209	CG2	THR	C	208	3.655	55.600	36.218	1.00	12.78	C
ATOM	8210	N	LEU	C	209	0.798	54.205	34.902	1.00	13.23	N
ATOM	8211	CA	LEU	C	209	-0.530	54.800	34.964	1.00	14.28	C
ATOM	8212	C	LEU	C	209	-1.522	53.841	35.609	1.00	14.80	C
ATOM	8213	O	LEU	C	209	-2.398	54.259	36.371	1.00	16.05	O
ATOM	8214	CB	LEU	C	209	-0.999	55.197	33.556	1.00	12.78	C
ATOM	8215	CG	LEU	C	209	-0.198	56.340	32.922	1.00	13.12	C
ATOM	8216	CD1	LEU	C	209	-0.585	56.538	31.462	1.00	11.36	C
ATOM	8217	CD2	LEU	C	209	-0.434	57.616	33.721	1.00	10.73	C
ATOM	8218	N	THR	C	210	-1.367	52.554	35.313	1.00	15.96	N
ATOM	8219	CA	THR	C	210	-2.236	51.520	35.862	1.00	15.16	C
ATOM	8220	C	THR	C	210	-2.014	51.393	37.366	1.00	16.66	C
ATOM	8221	O	THR	C	210	-2.969	51.255	38.140	1.00	18.09	O
ATOM	8222	CB	THR	C	210	-1.961	50.161	35.191	1.00	16.16	C
ATOM	8223	OG1	THR	C	210	-2.320	50.238	33.812	1.00	14.13	O
ATOM	8224	CG2	THR	C	210	-2.771	49.053	35.851	1.00	18.06	C
ATOM	8225	N	SER	C	211	-0.751	51.436	37.780	1.00	15.96	N
ATOM	8226	CA	SER	C	211	-0.421	51.344	39.201	1.00	15.81	C
ATOM	8227	C	SER	C	211	-0.970	52.563	39.953	1.00	15.20	C
ATOM	8228	O	SER	C	211	-1.503	52.444	41.062	1.00	15.29	O
ATOM	8229	CB	SER	C	211	1.095	51.257	39.380	1.00	16.11	C
ATOM	8230	OG	SER	C	211	1.441	51.280	40.752	1.00	20.57	O
ATOM	8231	N	ALA	C	212	-0.846	53.737	39.342	1.00	15.62	N
ATOM	8232	CA	ALA	C	212	-1.336	54.967	39.956	1.00	16.34	C
ATOM	8233	C	ALA	C	212	-2.840	54.870	40.159	1.00	16.35	C
ATOM	8234	O	ALA	C	212	-3.362	55.332	41.170	1.00	17.62	O
ATOM	8235	CB	ALA	C	212	-0.996	56.172	39.082	1.00	12.70	C
ATOM	8236	N	ARG	C	213	-3.534	54.260	39.199	1.00	17.90	N
ATOM	8237	CA	ARG	C	213	-4.988	54.106	39.296	1.00	18.19	C
ATOM	8238	C	ARG	C	213	-5.333	53.070	40.351	1.00	18.52	C
ATOM	8239	O	ARG	C	213	-6.241	53.276	41.160	1.00	19.87	O
ATOM	8240	CB	ARG	C	213	-5.592	53.668	37.956	1.00	19.29	C
ATOM	8241	CG	ARG	C	213	-7.115	53.551	37.991	1.00	20.03	C
ATOM	8242	CD	ARG	C	213	-7.761	54.928	38.005	1.00	21.46	C
ATOM	8243	NE	ARG	C	213	-7.627	55.554	36.694	1.00	24.81	N
ATOM	8244	CZ	ARG	C	213	-7.851	56.836	36.431	1.00	25.51	C
ATOM	8245	NH1	ARG	C	213	-8.225	57.676	37.398	1.00	20.13	N
ATOM	8246	NH2	ARG	C	213	-7.713	57.270	35.181	1.00	24.86	N
ATOM	8247	N	LEU	C	214	-4.610	51.951	40.342	1.00	16.94	N
ATOM	8248	CA	LEU	C	214	-4.852	50.894	41.316	1.00	16.35	C
ATOM	8249	C	LEU	C	214	-4.738	51.438	42.739	1.00	17.32	C
ATOM	8250	O	LEU	C	214	-5.586	51.161	43.592	1.00	19.31	O
ATOM	8251	CB	LEU	C	214	-3.851	49.750	41.124	1.00	15.67	C
ATOM	8252	CG	LEU	C	214	-4.046	48.540	42.046	1.00	14.86	C
ATOM	8253	CD1	LEU	C	214	-5.416	47.939	41.794	1.00	12.11	C
ATOM	8254	CD2	LEU	C	214	-2.948	47.502	41.805	1.00	12.35	C
ATOM	8255	N	ALA	C	215	-3.694	52.222	42.992	1.00	16.14	N
ATOM	8256	CA	ALA	C	215	-3.490	52.781	44.321	1.00	15.98	C
ATOM	8257	C	ALA	C	215	-4.684	53.628	44.739	1.00	16.07	C
ATOM	8258	O	ALA	C	215	-5.119	53.556	45.887	1.00	15.93	O
ATOM	8259	CB	ALA	C	215	-2.199	53.616	44.368	1.00	12.95	C
ATOM	8260	N	ALA	C	216	-5.208	54.429	43.813	1.00	15.65	N
ATOM	8261	CA	ALA	C	216	-6.367	55.273	44.111	1.00	16.45	C
ATOM	8262	C	ALA	C	216	-7.600	54.420	44.385	1.00	16.38	C
ATOM	8263	O	ALA	C	216	-8.369	54.715	45.304	1.00	16.74	O
ATOM	8264	CB	ALA	C	216	-6.650	56.246	42.953	1.00	13.86	C
ATOM	8265	N	ASP	C	217	-7.792	53.364	43.598	1.00	16.43	N
ATOM	8266	CA	ASP	C	217	-8.950	52.492	43.805	1.00	18.16	C
ATOM	8267	C	ASP	C	217	-8.878	51.779	45.149	1.00	19.85	C
ATOM	8268	O	ASP	C	217	-9.878	51.698	45.870	1.00	19.05	O
ATOM	8269	CB	ASP	C	217	-9.067	51.452	42.689	1.00	18.77	C
ATOM	8270	CG	ASP	C	217	-9.464	52.067	41.367	1.00	20.46	C
ATOM	8271	OD1	ASP	C	217	-10.059	53.166	41.386	1.00	20.02	O
ATOM	8272	OD2	ASP	C	217	-9.195	51.449	40.316	1.00	21.92	O
ATOM	8273	N	VAL	C	218	-7.700	51.254	45.481	1.00	19.01	N
ATOM	8274	CA	VAL	C	218	-7.523	50.558	46.754	1.00	16.67	C
ATOM	8275	C	VAL	C	218	-7.747	51.545	47.887	1.00	16.80	C
ATOM	8276	O	VAL	C	218	-8.253	51.182	48.951	1.00	15.80	O
ATOM	8277	CB	VAL	C	218	-6.105	49.946	46.873	1.00	16.20	C
ATOM	8278	CG1	VAL	C	218	-5.835	49.492	48.312	1.00	13.77	C
ATOM	8279	CG2	VAL	C	218	-5.976	48.773	45.907	1.00	12.30	C



ATOM	8280	N	ALA	C	219	-7.363	52.796	47.643	1.00	16.65	N
ATOM	8281	CA	ALA	C	219	-7.519	53.872	48.616	1.00	18.28	C
ATOM	8282	C	ALA	C	219	-8.954	54.397	48.573	1.00	18.90	C
ATOM	8283	O	ALA	C	219	-9.343	55.228	49.389	1.00	20.10	O
ATOM	8284	CB	ALA	C	219	-6.533	55.001	48.315	1.00	15.67	C
ATOM	8285	N	ASP	C	220	-9.722	53.914	47.598	1.00	19.59	N
ATOM	8286	CA	ASP	C	220	-11.128	54.276	47.427	1.00	19.68	C
ATOM	8287	C	ASP	C	220	-11.443	55.755	47.172	1.00	19.18	C
ATOM	8288	O	ASP	C	220	-12.418	56.290	47.704	1.00	21.40	O
ATOM	8289	CB	ASP	C	220	-11.929	53.771	48.634	1.00	20.04	C
ATOM	8290	CG	ASP	C	220	-13.432	53.918	48.446	1.00	23.28	C
ATOM	8291	OD1	ASP	C	220	-13.939	53.611	47.345	1.00	25.04	O
ATOM	8292	OD2	ASP	C	220	-14.110	54.331	49.410	1.00	26.91	O
ATOM	8293	N	VAL	C	221	-10.624	56.413	46.358	1.00	18.04	N
ATOM	8294	CA	VAL	C	221	-10.840	57.816	46.019	1.00	17.01	C
ATOM	8295	C	VAL	C	221	-10.596	58.029	44.523	1.00	18.49	C
ATOM	8296	O	VAL	C	221	-9.668	57.458	43.956	1.00	18.77	O
ATOM	8297	CB	VAL	C	221	-9.919	58.744	46.837	1.00	17.86	C
ATOM	8298	CG1	VAL	C	221	-10.324	58.696	48.304	1.00	16.19	C
ATOM	8299	CG2	VAL	C	221	-8.454	58.325	46.667	1.00	17.87	C
ATOM	8300	N	PRO	C	222	-11.431	58.859	43.869	1.00	18.91	N
ATOM	8301	CA	PRO	C	222	-11.356	59.176	42.438	1.00	18.86	C
ATOM	8302	C	PRO	C	222	-10.222	60.114	42.032	1.00	18.18	C
ATOM	8303	O	PRO	C	222	-10.440	61.078	41.298	1.00	16.62	O
ATOM	8304	CB	PRO	C	222	-12.729	59.786	42.160	1.00	19.22	C
ATOM	8305	CG	PRO	C	222	-12.975	60.556	43.394	1.00	17.28	C
ATOM	8306	CD	PRO	C	222	-12.551	59.587	44.494	1.00	18.56	C
ATOM	8307	N	THR	C	223	-9.011	59.826	42.492	1.00	18.03	N
ATOM	8308	CA	THR	C	223	-7.865	60.672	42.168	1.00	18.19	C
ATOM	8309	C	THR	C	223	-7.704	60.940	40.664	1.00	18.09	C
ATOM	8310	O	THR	C	223	-7.808	60.029	39.841	1.00	17.19	O
ATOM	8311	CB	THR	C	223	-6.542	60.049	42.682	1.00	17.77	C
ATOM	8312	OG1	THR	C	223	-6.652	59.750	44.082	1.00	16.67	O
ATOM	8313	CG2	THR	C	223	-5.388	61.018	42.470	1.00	16.56	C
ATOM	8314	N	VAL	C	224	-7.445	62.195	40.311	1.00	16.99	N
ATOM	8315	CA	VAL	C	224	-7.234	62.556	38.914	1.00	16.85	C
ATOM	8316	C	VAL	C	224	-5.829	62.123	38.492	1.00	17.87	C
ATOM	8317	O	VAL	C	224	-4.825	62.610	39.023	1.00	17.53	O
ATOM	8318	CB	VAL	C	224	-7.368	64.071	38.702	1.00	17.23	C
ATOM	8319	CG1	VAL	C	224	-6.944	64.436	37.288	1.00	15.59	C
ATOM	8320	CG2	VAL	C	224	-8.802	64.509	38.967	1.00	17.78	C
ATOM	8321	N	VAL	C	225	-5.764	61.203	37.539	1.00	17.73	N
ATOM	8322	CA	VAL	C	225	-4.490	60.693	37.045	1.00	17.72	C
ATOM	8323	C	VAL	C	225	-4.064	61.404	35.766	1.00	18.72	C
ATOM	8324	O	VAL	C	225	-4.791	61.408	34.772	1.00	19.48	O
ATOM	8325	CB	VAL	C	225	-4.583	59.182	36.786	1.00	17.41	C
ATOM	8326	CG1	VAL	C	225	-3.287	58.670	36.202	1.00	15.04	C
ATOM	8327	CG2	VAL	C	225	-4.919	58.463	38.089	1.00	16.01	C
ATOM	8328	N	ILE	C	226	-2.880	62.009	35.799	1.00	19.45	N
ATOM	8329	CA	ILE	C	226	-2.358	62.742	34.652	1.00	18.10	C
ATOM	8330	C	ILE	C	226	-1.144	62.065	34.025	1.00	17.99	C
ATOM	8331	O	ILE	C	226	-0.189	61.702	34.715	1.00	17.46	O
ATOM	8332	CB	ILE	C	226	-1.963	64.168	35.055	1.00	17.72	C
ATOM	8333	CG1	ILE	C	226	-3.175	64.885	35.644	1.00	19.94	C
ATOM	8334	CG2	ILE	C	226	-1.431	64.927	33.851	1.00	18.42	C
ATOM	8335	CD1	ILE	C	226	-2.865	66.263	36.183	1.00	21.31	C
ATOM	8336	N	ALA	C	227	-1.178	61.908	32.708	1.00	17.33	N
ATOM	8337	CA	ALA	C	227	-0.073	61.291	32.003	1.00	18.92	C
ATOM	8338	C	ALA	C	227	0.745	62.343	31.265	1.00	20.17	C
ATOM	8339	O	ALA	C	227	0.204	63.150	30.508	1.00	20.54	O
ATOM	8340	CB	ALA	C	227	-0.594	60.244	31.021	1.00	19.21	C
ATOM	8341	N	ARG	C	228	2.052	62.325	31.494	1.00	21.06	N
ATOM	8342	CA	ARG	C	228	2.969	63.259	30.849	1.00	20.54	C
ATOM	8343	C	ARG	C	228	3.985	62.517	29.989	1.00	20.39	C
ATOM	8344	O	ARG	C	228	4.489	61.463	30.378	1.00	20.15	O
ATOM	8345	CB	ARG	C	228	3.709	64.087	31.906	1.00	19.70	C
ATOM	8346	CG	ARG	C	228	5.041	64.651	31.426	1.00	19.88	C
ATOM	8347	CD	ARG	C	228	5.703	65.550	32.475	1.00	19.78	C
ATOM	8348	NE	ARG	C	228	7.144	65.655	32.262	1.00	20.10	N
ATOM	8349	CZ	ARG	C	228	7.930	66.544	32.861	1.00	22.84	C
ATOM	8350	NH1	ARG	C	228	7.415	67.419	33.714	1.00	22.36	N
ATOM	8351	NH2	ARG	C	228	9.234	66.548	32.615	1.00	21.65	N
ATOM	8352	N	THR	C	229	4.271	63.055	28.808	1.00	21.14	N
ATOM	8353	CA	THR	C	229	5.264	62.443	27.933	1.00	20.71	C
ATOM	8354	C	THR	C	229	6.365	63.452	27.662	1.00	21.46	C
ATOM	8355	O	THR	C	229	6.094	64.633	27.428	1.00	22.19	O
ATOM	8356	CB	THR	C	229	4.667	61.985	26.582	1.00	20.56	C
ATOM	8357	OG1	THR	C	229	5.692	61.346	25.818	1.00	17.32	O
ATOM	8358	CG2	THR	C	229	4.121	63.172	25.784	1.00	20.39	C
ATOM	8359	N	ASP	C	230	7.607	62.983	27.709	1.00	22.00	N



ATOM	8360	CA	ASP	C	230	8.774	63.828	27.477	1.00	22.09	C
ATOM	8361	C	ASP	C	230	9.414	63.517	26.126	1.00	22.14	C
ATOM	8362	O	ASP	C	230	10.557	63.884	25.875	1.00	20.09	O
ATOM	8363	CB	ASP	C	230	9.798	63.610	28.598	1.00	23.42	C
ATOM	8364	CG	ASP	C	230	9.449	64.367	29.863	1.00	23.30	C
ATOM	8365	OD1	ASP	C	230	9.689	65.588	29.899	1.00	27.06	O
ATOM	8366	OD2	ASP	C	230	8.925	63.755	30.815	1.00	22.49	O
ATOM	8367	N	ALA	C	231	8.658	62.844	25.261	1.00	23.36	N
ATOM	8368	CA	ALA	C	231	9.134	62.444	23.939	1.00	23.13	C
ATOM	8369	C	ALA	C	231	9.398	63.591	22.972	1.00	23.97	C
ATOM	8370	O	ALA	C	231	9.890	63.366	21.873	1.00	22.84	O
ATOM	8371	CB	ALA	C	231	8.143	61.468	23.309	1.00	23.93	C
ATOM	8372	N	GLU	C	232	9.071	64.815	23.368	1.00	26.05	N
ATOM	8373	CA	GLU	C	232	9.288	65.958	22.491	1.00	26.93	C
ATOM	8374	C	GLU	C	232	10.779	66.246	22.333	1.00	26.78	C
ATOM	8375	O	GLU	C	232	11.258	66.490	21.225	1.00	26.96	O
ATOM	8376	CB	GLU	C	232	8.558	67.181	23.047	1.00	29.47	C
ATOM	8377	CG	GLU	C	232	8.248	68.268	22.026	1.00	34.10	C
ATOM	8378	CD	GLU	C	232	9.367	69.275	21.876	1.00	36.62	C
ATOM	8379	OE1	GLU	C	232	9.677	69.979	22.861	1.00	37.83	O
ATOM	8380	OE2	GLU	C	232	9.938	69.362	20.770	1.00	40.47	O
ATOM	8381	N	ALA	C	233	11.520	66.190	23.435	1.00	24.92	N
ATOM	8382	CA	ALA	C	233	12.953	66.468	23.388	1.00	25.52	C
ATOM	8383	C	ALA	C	233	13.860	65.266	23.637	1.00	24.99	C
ATOM	8384	O	ALA	C	233	15.012	65.262	23.212	1.00	26.52	O
ATOM	8385	CB	ALA	C	233	13.296	67.588	24.376	1.00	23.11	C
ATOM	8386	N	ALA	C	234	13.353	64.246	24.321	1.00	25.18	N
ATOM	8387	CA	ALA	C	234	14.168	63.067	24.610	1.00	23.95	C
ATOM	8388	C	ALA	C	234	14.637	62.349	23.343	1.00	23.99	C
ATOM	8389	O	ALA	C	234	13.844	62.074	22.443	1.00	24.74	O
ATOM	8390	CB	ALA	C	234	13.391	62.115	25.485	1.00	22.85	C
ATOM	8391	N	THR	C	235	15.930	62.043	23.278	1.00	23.70	N
ATOM	8392	CA	THR	C	235	16.493	61.347	22.124	1.00	23.56	C
ATOM	8393	C	THR	C	235	17.011	59.969	22.537	1.00	24.13	C
ATOM	8394	O	THR	C	235	17.724	59.307	21.787	1.00	23.60	O
ATOM	8395	CB	THR	C	235	17.662	62.133	21.490	1.00	24.41	C
ATOM	8396	OG1	THR	C	235	18.729	62.247	22.435	1.00	25.84	O
ATOM	8397	CG2	THR	C	235	17.214	63.520	21.070	1.00	24.70	C
ATOM	8398	N	LEU	C	236	16.651	59.540	23.740	1.00	23.60	N
ATOM	8399	CA	LEU	C	236	17.081	58.239	24.228	1.00	23.40	C
ATOM	8400	C	LEU	C	236	15.906	57.468	24.810	1.00	23.16	C
ATOM	8401	O	LEU	C	236	14.940	58.064	25.278	1.00	21.62	O
ATOM	8402	CB	LEU	C	236	18.158	58.402	25.305	1.00	23.79	C
ATOM	8403	CG	LEU	C	236	19.503	58.992	24.868	1.00	25.28	C
ATOM	8404	CD1	LEU	C	236	20.393	59.225	26.081	1.00	25.92	C
ATOM	8405	CD2	LEU	C	236	20.174	58.049	23.894	1.00	25.67	C
ATOM	8406	N	ILE	C	237	15.994	56.140	24.752	1.00	23.02	N
ATOM	8407	CA	ILE	C	237	14.976	55.258	25.313	1.00	22.36	C
ATOM	8408	C	ILE	C	237	15.692	54.008	25.835	1.00	22.79	C
ATOM	8409	O	ILE	C	237	16.659	53.531	25.230	1.00	22.50	O
ATOM	8410	CB	ILE	C	237	13.879	54.871	24.269	1.00	22.40	C
ATOM	8411	CG1	ILE	C	237	12.722	54.161	24.985	1.00	20.72	C
ATOM	8412	CG2	ILE	C	237	14.461	53.988	23.178	1.00	22.25	C
ATOM	8413	CD1	ILE	C	237	11.519	53.874	24.110	1.00	21.68	C
ATOM	8414	N	THR	C	238	15.220	53.493	26.968	1.00	20.96	N
ATOM	8415	CA	THR	C	238	15.820	52.334	27.607	1.00	21.33	C
ATOM	8416	C	THR	C	238	15.763	51.047	26.805	1.00	22.36	C
ATOM	8417	O	THR	C	238	16.672	50.227	26.900	1.00	23.14	O
ATOM	8418	CB	THR	C	238	15.171	52.045	28.994	1.00	22.48	C
ATOM	8419	OG1	THR	C	238	13.777	51.739	28.827	1.00	19.04	O
ATOM	8420	CG2	THR	C	238	15.321	53.245	29.912	1.00	21.18	C
ATOM	8421	N	SER	C	239	14.707	50.865	26.017	1.00	22.16	N
ATOM	8422	CA	SER	C	239	14.557	49.636	25.248	1.00	22.70	C
ATOM	8423	C	SER	C	239	13.711	49.791	23.982	1.00	24.27	C
ATOM	8424	O	SER	C	239	12.910	50.715	23.869	1.00	23.14	O
ATOM	8425	CB	SER	C	239	13.931	48.566	26.147	1.00	21.12	C
ATOM	8426	OG	SER	C	239	13.691	47.368	25.435	1.00	23.51	O
ATOM	8427	N	ASP	C	240	13.891	48.865	23.042	1.00	25.38	N
ATOM	8428	CA	ASP	C	240	13.145	48.873	21.785	1.00	26.51	C
ATOM	8429	C	ASP	C	240	12.125	47.733	21.776	1.00	27.21	C
ATOM	8430	O	ASP	C	240	11.614	47.343	20.727	1.00	28.96	O
ATOM	8431	CB	ASP	C	240	14.112	48.721	20.605	1.00	26.53	C
ATOM	8432	CG	ASP	C	240	14.806	47.372	20.591	1.00	28.77	C
ATOM	8433	OD1	ASP	C	240	14.963	46.766	21.673	1.00	29.87	O
ATOM	8434	OD2	ASP	C	240	15.211	46.919	19.498	1.00	31.37	O
ATOM	8435	N	VAL	C	241	11.830	47.208	22.961	1.00	27.03	N
ATOM	8436	CA	VAL	C	241	10.884	46.112	23.123	1.00	25.27	C
ATOM	8437	C	VAL	C	241	9.473	46.394	22.598	1.00	25.03	C
ATOM	8438	O	VAL	C	241	8.842	45.530	21.982	1.00	22.96	O
ATOM	8439	CB	VAL	C	241	10.766	45.711	24.620	1.00	26.01	C



ATOM	8440	CG1	VAL	C	241	10.263	46.893	25.444	1.00	24.56	C
ATOM	8441	CG2	VAL	C	241	9.822	44.529	24.774	1.00	25.33	C
ATOM	8442	N	ASP	C	242	8.981	47.601	22.839	1.00	23.36	N
ATOM	8443	CA	ASP	C	242	7.633	47.956	22.435	1.00	23.19	C
ATOM	8444	C	ASP	C	242	7.494	48.332	20.958	1.00	25.08	C
ATOM	8445	O	ASP	C	242	8.168	49.234	20.457	1.00	24.54	O
ATOM	8446	CB	ASP	C	242	7.125	49.092	23.321	1.00	23.60	C
ATOM	8447	CG	ASP	C	242	5.620	49.183	23.333	1.00	22.41	C
ATOM	8448	OD1	ASP	C	242	5.030	49.202	22.238	1.00	24.00	O
ATOM	8449	OD2	ASP	C	242	5.028	49.236	24.431	1.00	21.88	O
ATOM	8450	N	GLU	C	243	6.596	47.637	20.269	1.00	26.22	N
ATOM	8451	CA	GLU	C	243	6.361	47.870	18.850	1.00	28.46	C
ATOM	8452	C	GLU	C	243	5.872	49.277	18.532	1.00	27.02	C
ATOM	8453	O	GLU	C	243	6.027	49.751	17.412	1.00	25.72	O
ATOM	8454	CB	GLU	C	243	5.375	46.829	18.312	1.00	31.70	C
ATOM	8455	CG	GLU	C	243	5.979	45.434	18.251	1.00	40.65	C
ATOM	8456	CD	GLU	C	243	5.023	44.382	17.718	1.00	45.66	C
ATOM	8457	OE1	GLU	C	243	4.470	44.573	16.611	1.00	47.95	O
ATOM	8458	OE2	GLU	C	243	4.834	43.353	18.406	1.00	48.83	O
ATOM	8459	N	ARG	C	244	5.284	49.946	19.514	1.00	25.92	N
ATOM	8460	CA	ARG	C	244	4.803	51.305	19.304	1.00	25.53	C
ATOM	8461	C	ARG	C	244	5.948	52.315	19.316	1.00	25.71	C
ATOM	8462	O	ARG	C	244	5.803	53.429	18.814	1.00	27.08	O
ATOM	8463	CB	ARG	C	244	3.786	51.669	20.381	1.00	25.88	C
ATOM	8464	CG	ARG	C	244	2.449	50.987	20.194	1.00	26.46	C
ATOM	8465	CD	ARG	C	244	1.607	51.099	21.445	1.00	26.96	C
ATOM	8466	NE	ARG	C	244	2.222	50.375	22.552	1.00	24.73	N
ATOM	8467	CZ	ARG	C	244	1.600	50.077	23.685	1.00	24.71	C
ATOM	8468	NH1	ARG	C	244	0.337	50.446	23.870	1.00	22.51	N
ATOM	8469	NH2	ARG	C	244	2.236	49.395	24.624	1.00	23.85	N
ATOM	8470	N	ASP	C	245	7.086	51.923	19.886	1.00	23.89	N
ATOM	8471	CA	ASP	C	245	8.241	52.811	19.957	1.00	24.00	C
ATOM	8472	C	ASP	C	245	9.242	52.579	18.832	1.00	23.62	C
ATOM	8473	O	ASP	C	245	9.954	53.503	18.431	1.00	22.48	O
ATOM	8474	CB	ASP	C	245	8.970	52.651	21.294	1.00	21.41	C
ATOM	8475	CG	ASP	C	245	8.078	52.932	22.483	1.00	21.82	C
ATOM	8476	OD1	ASP	C	245	7.255	53.873	22.396	1.00	18.98	O
ATOM	8477	OD2	ASP	C	245	8.214	52.220	23.505	1.00	16.60	O
ATOM	8478	N	GLN	C	246	9.288	51.347	18.329	1.00	23.21	N
ATOM	8479	CA	GLN	C	246	10.218	50.971	17.266	1.00	25.32	C
ATOM	8480	C	GLN	C	246	10.263	51.889	16.041	1.00	25.67	C
ATOM	8481	O	GLN	C	246	11.329	52.098	15.458	1.00	25.01	O
ATOM	8482	CB	GLN	C	246	9.944	49.527	16.837	1.00	26.29	C
ATOM	8483	CG	GLN	C	246	10.022	48.559	18.016	1.00	28.17	C
ATOM	8484	CD	GLN	C	246	9.734	47.117	17.648	1.00	28.26	C
ATOM	8485	OE1	GLN	C	246	9.263	46.819	16.552	1.00	27.94	O
ATOM	8486	NE2	GLN	C	246	10.008	46.208	18.580	1.00	26.76	N
ATOM	8487	N	PRO	C	247	9.118	52.457	15.633	1.00	25.94	N
ATOM	8488	CA	PRO	C	247	9.183	53.334	14.457	1.00	26.72	C
ATOM	8489	C	PRO	C	247	10.182	54.484	14.633	1.00	26.78	C
ATOM	8490	O	PRO	C	247	10.762	54.979	13.668	1.00	27.25	O
ATOM	8491	CB	PRO	C	247	7.744	53.840	14.327	1.00	25.93	C
ATOM	8492	CG	PRO	C	247	6.935	52.681	14.841	1.00	25.87	C
ATOM	8493	CD	PRO	C	247	7.723	52.264	16.074	1.00	25.02	C
ATOM	8494	N	PHE	C	248	10.400	54.886	15.877	1.00	27.14	N
ATOM	8495	CA	PHE	C	248	11.289	56.000	16.162	1.00	26.71	C
ATOM	8496	C	PHE	C	248	12.707	55.598	16.557	1.00	27.74	C
ATOM	8497	O	PHE	C	248	13.595	56.445	16.617	1.00	28.11	O
ATOM	8498	CB	PHE	C	248	10.658	56.855	17.258	1.00	26.48	C
ATOM	8499	CG	PHE	C	248	9.221	57.226	16.983	1.00	27.28	C
ATOM	8500	CD1	PHE	C	248	8.906	58.243	16.085	1.00	27.74	C
ATOM	8501	CD2	PHE	C	248	8.180	56.525	17.590	1.00	25.52	C
ATOM	8502	CE1	PHE	C	248	7.573	58.553	15.795	1.00	27.95	C
ATOM	8503	CE2	PHE	C	248	6.849	56.825	17.307	1.00	25.32	C
ATOM	8504	CZ	PHE	C	248	6.543	57.840	16.408	1.00	26.82	C
ATOM	8505	N	ILE	C	249	12.925	54.315	16.827	1.00	28.59	N
ATOM	8506	CA	ILE	C	249	14.250	53.844	17.222	1.00	29.96	C
ATOM	8507	C	ILE	C	249	15.170	53.842	16.008	1.00	31.59	C
ATOM	8508	O	ILE	C	249	14.856	53.234	14.983	1.00	30.98	O
ATOM	8509	CB	ILE	C	249	14.194	52.407	17.796	1.00	30.60	C
ATOM	8510	CG1	ILE	C	249	13.128	52.310	18.890	1.00	30.49	C
ATOM	8511	CG2	ILE	C	249	15.557	52.011	18.333	1.00	30.01	C
ATOM	8512	CD1	ILE	C	249	13.365	53.195	20.072	1.00	31.75	C
ATOM	8513	N	THR	C	250	16.315	54.506	16.133	1.00	33.32	N
ATOM	8514	CA	THR	C	250	17.271	54.598	15.034	1.00	34.34	C
ATOM	8515	C	THR	C	250	18.239	53.438	14.980	1.00	35.62	C
ATOM	8516	O	THR	C	250	19.005	53.343	14.039	1.00	36.85	O
ATOM	8517	CB	THR	C	250	18.149	55.853	15.131	1.00	34.89	C
ATOM	8518	OG1	THR	C	250	19.122	55.660	16.165	1.00	34.80	O
ATOM	8519	CG2	THR	C	250	17.310	57.083	15.445	1.00	35.92	C



ATOM	8520	N	GLY	C	251	18.244	52.582	15.995	1.00	35.51	N
ATOM	8521	CA	GLY	C	251	19.170	51.462	15.987	1.00	34.70	C
ATOM	8522	C	GLY	C	251	20.500	51.734	16.678	1.00	34.48	C
ATOM	8523	O	GLY	C	251	21.182	50.793	17.087	1.00	33.29	O
ATOM	8524	N	GLU	C	252	20.880	53.005	16.805	1.00	34.40	N
ATOM	8525	CA	GLU	C	252	22.135	53.366	17.470	1.00	35.69	C
ATOM	8526	C	GLU	C	252	21.992	53.190	18.971	1.00	34.56	C
ATOM	8527	O	GLU	C	252	20.935	53.462	19.544	1.00	31.41	O
ATOM	8528	CB	GLU	C	252	22.507	54.827	17.221	1.00	37.85	C
ATOM	8529	CG	GLU	C	252	22.477	55.272	15.789	1.00	43.25	C
ATOM	8530	CD	GLU	C	252	22.570	56.777	15.685	1.00	45.56	C
ATOM	8531	OE1	GLU	C	252	23.629	57.324	16.075	1.00	43.83	O
ATOM	8532	OE2	GLU	C	252	21.578	57.401	15.234	1.00	45.49	O
ATOM	8533	N	ARG	C	253	23.078	52.770	19.603	1.00	35.10	N
ATOM	8534	CA	ARG	C	253	23.106	52.557	21.044	1.00	36.34	C
ATOM	8535	C	ARG	C	253	24.222	53.382	21.661	1.00	35.82	C
ATOM	8536	O	ARG	C	253	25.244	53.627	21.020	1.00	34.99	O
ATOM	8537	CB	ARG	C	253	23.355	51.081	21.344	1.00	38.00	C
ATOM	8538	CG	ARG	C	253	22.289	50.160	20.804	1.00	41.15	C
ATOM	8539	CD	ARG	C	253	21.207	49.925	21.834	1.00	43.12	C
ATOM	8540	NE	ARG	C	253	21.579	48.899	22.806	1.00	43.41	N
ATOM	8541	CZ	ARG	C	253	21.822	47.629	22.496	1.00	44.69	C
ATOM	8542	NH1	ARG	C	253	21.740	47.225	21.237	1.00	47.29	N
ATOM	8543	NH2	ARG	C	253	22.127	46.754	23.444	1.00	44.48	N
ATOM	8544	N	THR	C	254	24.023	53.816	22.902	1.00	35.96	N
ATOM	8545	CA	THR	C	254	25.045	54.588	23.597	1.00	35.25	C
ATOM	8546	C	THR	C	254	25.916	53.596	24.348	1.00	34.67	C
ATOM	8547	O	THR	C	254	25.662	52.392	24.310	1.00	34.81	O
ATOM	8548	CB	THR	C	254	24.432	55.567	24.606	1.00	33.39	C
ATOM	8549	OG1	THR	C	254	23.774	54.835	25.645	1.00	32.27	O
ATOM	8550	CG2	THR	C	254	23.432	56.475	23.913	1.00	34.00	C
ATOM	8551	N	ARG	C	255	26.945	54.093	25.022	1.00	35.84	N
ATOM	8552	CA	ARG	C	255	27.822	53.217	25.783	1.00	35.99	C
ATOM	8553	C	ARG	C	255	27.051	52.578	26.935	1.00	33.59	C
ATOM	8554	O	ARG	C	255	27.302	51.430	27.280	1.00	32.09	O
ATOM	8555	CB	ARG	C	255	29.019	54.000	26.327	1.00	39.84	C
ATOM	8556	CG	ARG	C	255	29.902	54.605	25.246	1.00	47.48	C
ATOM	8557	CD	ARG	C	255	31.126	55.290	25.846	1.00	52.94	C
ATOM	8558	NE	ARG	C	255	31.983	54.344	26.558	1.00	57.29	N
ATOM	8559	CZ	ARG	C	255	32.600	53.316	25.981	1.00	59.65	C
ATOM	8560	NH1	ARG	C	255	32.458	53.100	24.678	1.00	60.50	N
ATOM	8561	NH2	ARG	C	255	33.359	52.502	26.707	1.00	59.91	N
ATOM	8562	N	GLU	C	256	26.102	53.318	27.512	1.00	32.44	N
ATOM	8563	CA	GLU	C	256	25.307	52.809	28.629	1.00	31.79	C
ATOM	8564	C	GLU	C	256	24.295	51.760	28.199	1.00	31.21	C
ATOM	8565	O	GLU	C	256	23.728	51.070	29.042	1.00	33.27	O
ATOM	8566	CB	GLU	C	256	24.559	53.942	29.344	1.00	32.36	C
ATOM	8567	CG	GLU	C	256	25.442	55.074	29.842	1.00	32.86	C
ATOM	8568	CD	GLU	C	256	25.539	56.216	28.844	1.00	33.10	C
ATOM	8569	OE1	GLU	C	256	25.575	55.939	27.625	1.00	32.10	O
ATOM	8570	OE2	GLU	C	256	25.589	57.390	29.279	1.00	34.54	O
ATOM	8571	N	GLY	C	257	24.056	51.651	26.896	1.00	29.80	N
ATOM	8572	CA	GLY	C	257	23.104	50.674	26.400	1.00	28.29	C
ATOM	8573	C	GLY	C	257	21.752	51.247	26.004	1.00	28.36	C
ATOM	8574	O	GLY	C	257	20.830	50.497	25.685	1.00	27.81	O
ATOM	8575	N	PHE	C	258	21.626	52.572	26.025	1.00	27.13	N
ATOM	8576	CA	PHE	C	258	20.376	53.217	25.654	1.00	26.68	C
ATOM	8577	C	PHE	C	258	20.263	53.276	24.134	1.00	28.55	C
ATOM	8578	O	PHE	C	258	21.277	53.289	23.433	1.00	30.02	O
ATOM	8579	CB	PHE	C	258	20.314	54.641	26.205	1.00	25.41	C
ATOM	8580	CG	PHE	C	258	20.475	54.738	27.697	1.00	24.65	C
ATOM	8581	CD1	PHE	C	258	19.660	54.001	28.555	1.00	26.91	C
ATOM	8582	CD2	PHE	C	258	21.406	55.613	28.247	1.00	22.96	C
ATOM	8583	CE1	PHE	C	258	19.767	54.140	29.943	1.00	25.63	C
ATOM	8584	CE2	PHE	C	258	21.525	55.764	29.628	1.00	25.32	C
ATOM	8585	CZ	PHE	C	258	20.702	55.026	30.482	1.00	24.54	C
ATOM	8586	N	TYR	C	259	19.030	53.314	23.630	1.00	28.37	N
ATOM	8587	CA	TYR	C	259	18.781	53.383	22.192	1.00	27.16	C
ATOM	8588	C	TYR	C	259	18.412	54.804	21.762	1.00	28.00	C
ATOM	8589	O	TYR	C	259	17.562	55.444	22.393	1.00	27.65	O
ATOM	8590	CB	TYR	C	259	17.626	52.463	21.792	1.00	26.76	C
ATOM	8591	CG	TYR	C	259	17.845	50.983	22.013	1.00	25.55	C
ATOM	8592	CD1	TYR	C	259	17.891	50.443	23.296	1.00	26.12	C
ATOM	8593	CD2	TYR	C	259	17.973	50.116	20.931	1.00	25.64	C
ATOM	8594	CE1	TYR	C	259	18.058	49.073	23.496	1.00	23.39	C
ATOM	8595	CE2	TYR	C	259	18.140	48.747	21.118	1.00	24.74	C
ATOM	8596	CZ	TYR	C	259	18.181	48.232	22.401	1.00	24.90	C
ATOM	8597	OH	TYR	C	259	18.346	46.877	22.581	1.00	24.58	O
ATOM	8598	N	ARG	C	260	19.041	55.292	20.693	1.00	26.78	N
ATOM	8599	CA	ARG	C	260	18.724	56.620	20.177	1.00	26.83	C



ATOM	8600	C	ARG	C	260	17.327	56.524	19.585	1.00	26.11	C
ATOM	8601	O	ARG	C	260	16.965	55.509	18.991	1.00	23.73	O
ATOM	8602	CB	ARG	C	260	19.707	57.045	19.076	1.00	28.93	C
ATOM	8603	CG	ARG	C	260	21.091	57.450	19.563	1.00	30.71	C
ATOM	8604	CD	ARG	C	260	21.042	58.743	20.356	1.00	33.26	C
ATOM	8605	NE	ARG	C	260	22.326	59.040	20.989	1.00	36.71	N
ATOM	8606	CZ	ARG	C	260	22.509	59.995	21.896	1.00	37.22	C
ATOM	8607	NH1	ARG	C	260	21.488	60.753	22.282	1.00	39.09	N
ATOM	8608	NH2	ARG	C	260	23.708	60.185	22.430	1.00	38.18	N
ATOM	8609	N	THR	C	261	16.542	57.580	19.749	1.00	26.73	N
ATOM	8610	CA	THR	C	261	15.185	57.597	19.230	1.00	27.41	C
ATOM	8611	C	THR	C	261	14.840	58.999	18.741	1.00	27.63	C
ATOM	8612	O	THR	C	261	15.240	59.992	19.348	1.00	27.67	O
ATOM	8613	CB	THR	C	261	14.181	57.161	20.319	1.00	26.37	C
ATOM	8614	OG1	THR	C	261	12.845	57.231	19.804	1.00	28.79	O
ATOM	8615	CG2	THR	C	261	14.297	58.059	21.533	1.00	26.55	C
ATOM	8616	N	LYS	C	262	14.100	59.072	17.639	1.00	28.70	N
ATOM	8617	CA	LYS	C	262	13.709	60.347	17.053	1.00	30.79	C
ATOM	8618	C	LYS	C	262	12.619	61.063	17.843	1.00	30.23	C
ATOM	8619	O	LYS	C	262	11.492	60.588	17.946	1.00	30.30	O
ATOM	8620	CB	LYS	C	262	13.247	60.131	15.615	1.00	34.13	C
ATOM	8621	CG	LYS	C	262	14.325	59.540	14.745	1.00	39.54	C
ATOM	8622	CD	LYS	C	262	13.888	59.415	13.307	1.00	43.51	C
ATOM	8623	CE	LYS	C	262	15.092	59.124	12.438	1.00	46.41	C
ATOM	8624	NZ	LYS	C	262	16.124	60.195	12.589	1.00	46.82	N
ATOM	8625	N	ASN	C	263	12.972	62.221	18.388	1.00	30.42	N
ATOM	8626	CA	ASN	C	263	12.051	63.024	19.181	1.00	30.04	C
ATOM	8627	C	ASN	C	263	11.159	63.894	18.302	1.00	29.73	C
ATOM	8628	O	ASN	C	263	11.303	63.929	17.079	1.00	28.80	O
ATOM	8629	CB	ASN	C	263	12.843	63.918	20.123	1.00	30.42	C
ATOM	8630	CG	ASN	C	263	13.777	64.839	19.378	1.00	32.68	C
ATOM	8631	OD1	ASN	C	263	14.665	64.384	18.658	1.00	33.47	O
ATOM	8632	ND2	ASN	C	263	13.576	66.140	19.533	1.00	32.69	N
ATOM	8633	N	GLY	C	264	10.240	64.607	18.939	1.00	28.61	N
ATOM	8634	CA	GLY	C	264	9.343	65.466	18.196	1.00	29.53	C
ATOM	8635	C	GLY	C	264	7.906	65.287	18.630	1.00	27.99	C
ATOM	8636	O	GLY	C	264	7.620	64.552	19.567	1.00	28.44	O
ATOM	8637	N	ILE	C	265	6.998	65.965	17.941	1.00	29.22	N
ATOM	8638	CA	ILE	C	265	5.583	65.887	18.261	1.00	30.10	C
ATOM	8639	C	ILE	C	265	4.971	64.558	17.828	1.00	29.40	C
ATOM	8640	O	ILE	C	265	3.998	64.096	18.415	1.00	29.25	O
ATOM	8641	CB	ILE	C	265	4.799	67.035	17.590	1.00	31.47	C
ATOM	8642	CG1	ILE	C	265	3.338	67.006	18.048	1.00	32.48	C
ATOM	8643	CG2	ILE	C	265	4.889	66.904	16.072	1.00	31.25	C
ATOM	8644	CD1	ILE	C	265	2.518	68.190	17.578	1.00	35.59	C
ATOM	8645	N	GLU	C	266	5.544	63.944	16.803	1.00	29.03	N
ATOM	8646	CA	GLU	C	266	5.019	62.681	16.313	1.00	32.11	C
ATOM	8647	C	GLU	C	266	5.051	61.587	17.386	1.00	30.74	C
ATOM	8648	O	GLU	C	266	4.059	60.885	17.593	1.00	29.88	O
ATOM	8649	CB	GLU	C	266	5.786	62.249	15.061	1.00	35.53	C
ATOM	8650	CG	GLU	C	266	5.293	60.954	14.455	1.00	43.72	C
ATOM	8651	CD	GLU	C	266	5.841	60.713	13.058	1.00	47.45	C
ATOM	8652	OE1	GLU	C	266	7.060	60.913	12.851	1.00	49.73	O
ATOM	8653	OE2	GLU	C	266	5.052	60.315	12.172	1.00	48.96	O
ATOM	8654	N	PRO	C	267	6.190	61.423	18.080	1.00	29.41	N
ATOM	8655	CA	PRO	C	267	6.263	60.392	19.124	1.00	28.71	C
ATOM	8656	C	PRO	C	267	5.346	60.748	20.302	1.00	27.06	C
ATOM	8657	O	PRO	C	267	4.821	59.864	20.974	1.00	26.09	O
ATOM	8658	CB	PRO	C	267	7.739	60.404	19.530	1.00	28.60	C
ATOM	8659	CG	PRO	C	267	8.433	60.898	18.303	1.00	30.90	C
ATOM	8660	CD	PRO	C	267	7.522	61.998	17.827	1.00	30.59	C
ATOM	8661	N	CYS	C	268	5.169	62.045	20.550	1.00	25.06	N
ATOM	8662	CA	CYS	C	268	4.315	62.501	21.642	1.00	24.78	C
ATOM	8663	C	CYS	C	268	2.864	62.166	21.327	1.00	24.73	C
ATOM	8664	O	CYS	C	268	2.104	61.762	22.209	1.00	24.88	O
ATOM	8665	CB	CYS	C	268	4.465	64.012	21.854	1.00	23.86	C
ATOM	8666	SG	CYS	C	268	6.119	64.547	22.403	1.00	25.58	S
ATOM	8667	N	ILE	C	269	2.480	62.338	20.065	1.00	23.57	N
ATOM	8668	CA	ILE	C	269	1.117	62.042	19.647	1.00	23.64	C
ATOM	8669	C	ILE	C	269	0.857	60.541	19.777	1.00	22.63	C
ATOM	8670	O	ILE	C	269	-0.175	60.126	20.294	1.00	23.09	O
ATOM	8671	CB	ILE	C	269	0.873	62.490	18.188	1.00	24.24	C
ATOM	8672	CG1	ILE	C	269	0.855	64.018	18.119	1.00	23.57	C
ATOM	8673	CG2	ILE	C	269	-0.450	61.920	17.666	1.00	25.04	C
ATOM	8674	CD1	ILE	C	269	0.822	64.573	16.711	1.00	22.15	C
ATOM	8675	N	ALA	C	270	1.805	59.735	19.315	1.00	21.83	N
ATOM	8676	CA	ALA	C	270	1.676	58.286	19.391	1.00	21.90	C
ATOM	8677	C	ALA	C	270	1.521	57.844	20.845	1.00	21.21	C
ATOM	8678	O	ALA	C	270	0.633	57.058	21.165	1.00	21.08	O
ATOM	8679	CB	ALA	C	270	2.894	57.618	18.760	1.00	20.37	C



ATOM	8680	N	ARG	C	271	2.376	58.363	21.723	1.00	20.85	N
ATOM	8681	CA	ARG	C	271	2.319	58.015	23.141	1.00	21.34	C
ATOM	8682	C	ARG	C	271	1.056	58.521	23.835	1.00	21.20	C
ATOM	8683	O	ARG	C	271	0.455	57.806	24.630	1.00	21.96	O
ATOM	8684	CB	ARG	C	271	3.574	58.531	23.858	1.00	20.92	C
ATOM	8685	CG	ARG	C	271	4.789	57.659	23.594	1.00	20.41	C
ATOM	8686	CD	ARG	C	271	6.077	58.251	24.134	1.00	20.12	C
ATOM	8687	NE	ARG	C	271	7.194	57.340	23.891	1.00	20.88	N
ATOM	8688	CZ	ARG	C	271	7.741	56.557	24.816	1.00	19.83	C
ATOM	8689	NH1	ARG	C	271	7.288	56.572	26.062	1.00	20.05	N
ATOM	8690	NH2	ARG	C	271	8.725	55.738	24.486	1.00	20.25	N
ATOM	8691	N	ALA	C	272	0.648	59.747	23.532	1.00	21.74	N
ATOM	8692	CA	ALA	C	272	-0.557	60.300	24.137	1.00	23.71	C
ATOM	8693	C	ALA	C	272	-1.761	59.412	23.803	1.00	24.93	C
ATOM	8694	O	ALA	C	272	-2.607	59.147	24.661	1.00	24.80	O
ATOM	8695	CB	ALA	C	272	-0.795	61.728	23.637	1.00	21.85	C
ATOM	8696	N	LYS	C	273	-1.840	58.951	22.558	1.00	25.25	N
ATOM	8697	CA	LYS	C	273	-2.948	58.087	22.156	1.00	26.68	C
ATOM	8698	C	LYS	C	273	-2.908	56.782	22.942	1.00	25.05	C
ATOM	8699	O	LYS	C	273	-3.941	56.280	23.380	1.00	25.53	O
ATOM	8700	CB	LYS	C	273	-2.890	57.786	20.653	1.00	27.07	C
ATOM	8701	CG	LYS	C	273	-3.190	58.983	19.764	1.00	27.53	C
ATOM	8702	CD	LYS	C	273	-3.037	58.615	18.301	1.00	29.05	C
ATOM	8703	CE	LYS	C	273	-3.338	59.796	17.395	1.00	29.69	C
ATOM	8704	NZ	LYS	C	273	-3.063	59.464	15.968	1.00	30.62	N
ATOM	8705	N	ALA	C	274	-1.708	56.240	23.121	1.00	24.45	N
ATOM	8706	CA	ALA	C	274	-1.530	54.995	23.859	1.00	23.25	C
ATOM	8707	C	ALA	C	274	-1.906	55.159	25.336	1.00	23.70	C
ATOM	8708	O	ALA	C	274	-2.459	54.240	25.944	1.00	22.45	O
ATOM	8709	CB	ALA	C	274	-0.087	54.520	23.733	1.00	22.84	C
ATOM	8710	N	TYR	C	275	-1.619	56.332	25.902	1.00	21.62	N
ATOM	8711	CA	TYR	C	275	-1.918	56.601	27.313	1.00	20.71	C
ATOM	8712	C	TYR	C	275	-3.355	57.032	27.576	1.00	19.89	C
ATOM	8713	O	TYR	C	275	-3.870	56.832	28.678	1.00	19.26	O
ATOM	8714	CB	TYR	C	275	-1.008	57.703	27.872	1.00	19.17	C
ATOM	8715	CG	TYR	C	275	0.473	57.487	27.678	1.00	17.30	C
ATOM	8716	CD1	TYR	C	275	1.012	56.202	27.606	1.00	17.77	C
ATOM	8717	CD2	TYR	C	275	1.344	58.572	27.614	1.00	17.24	C
ATOM	8718	CE1	TYR	C	275	2.390	56.002	27.473	1.00	17.02	C
ATOM	8719	CE2	TYR	C	275	2.720	58.387	27.486	1.00	18.43	C
ATOM	8720	CZ	TYR	C	275	3.234	57.098	27.417	1.00	17.81	C
ATOM	8721	OH	TYR	C	275	4.586	56.907	27.303	1.00	17.69	O
ATOM	8722	N	ALA	C	276	-3.989	57.630	26.570	1.00	18.87	N
ATOM	8723	CA	ALA	C	276	-5.355	58.137	26.692	1.00	19.36	C
ATOM	8724	C	ALA	C	276	-6.344	57.324	27.534	1.00	17.73	C
ATOM	8725	O	ALA	C	276	-7.014	57.873	28.398	1.00	20.13	O
ATOM	8726	CB	ALA	C	276	-5.943	58.378	25.297	1.00	21.30	C
ATOM	8727	N	PRO	C	277	-6.451	56.012	27.290	1.00	19.38	N
ATOM	8728	CA	PRO	C	277	-7.380	55.166	28.047	1.00	19.82	C
ATOM	8729	C	PRO	C	277	-7.060	55.072	29.535	1.00	22.03	C
ATOM	8730	O	PRO	C	277	-7.912	54.676	30.339	1.00	20.42	O
ATOM	8731	CB	PRO	C	277	-7.243	53.801	27.365	1.00	18.19	C
ATOM	8732	CG	PRO	C	277	-6.773	54.138	25.992	1.00	18.47	C
ATOM	8733	CD	PRO	C	277	-5.777	55.227	26.244	1.00	19.33	C
ATOM	8734	N	PHE	C	278	-5.827	55.433	29.888	1.00	22.59	N
ATOM	8735	CA	PHE	C	278	-5.361	55.363	31.271	1.00	23.50	C
ATOM	8736	C	PHE	C	278	-5.055	56.736	31.860	1.00	22.86	C
ATOM	8737	O	PHE	C	278	-4.370	56.833	32.881	1.00	19.49	O
ATOM	8738	CB	PHE	C	278	-4.085	54.522	31.334	1.00	23.16	C
ATOM	8739	CG	PHE	C	278	-4.202	53.193	30.662	1.00	22.56	C
ATOM	8740	CD1	PHE	C	278	-4.669	52.083	31.363	1.00	24.45	C
ATOM	8741	CD2	PHE	C	278	-3.848	53.046	29.326	1.00	20.47	C
ATOM	8742	CE1	PHE	C	278	-4.779	50.843	30.740	1.00	25.19	C
ATOM	8743	CE2	PHE	C	278	-3.954	51.814	28.691	1.00	22.11	C
ATOM	8744	CZ	PHE	C	278	-4.420	50.707	29.399	1.00	22.78	C
ATOM	8745	N	ALA	C	279	-5.552	57.796	31.229	1.00	23.14	N
ATOM	8746	CA	ALA	C	279	-5.260	59.138	31.722	1.00	23.83	C
ATOM	8747	C	ALA	C	279	-6.431	60.114	31.687	1.00	23.39	C
ATOM	8748	O	ALA	C	279	-7.051	60.313	30.642	1.00	25.14	O
ATOM	8749	CB	ALA	C	279	-4.086	59.713	30.936	1.00	23.88	C
ATOM	8750	N	ASP	C	280	-6.726	60.729	32.831	1.00	22.17	N
ATOM	8751	CA	ASP	C	280	-7.809	61.702	32.906	1.00	21.82	C
ATOM	8752	C	ASP	C	280	-7.359	62.958	32.152	1.00	22.41	C
ATOM	8753	O	ASP	C	280	-8.174	63.701	31.603	1.00	20.61	O
ATOM	8754	CB	ASP	C	280	-8.142	62.030	34.365	1.00	21.28	C
ATOM	8755	CG	ASP	C	280	-8.692	60.828	35.120	1.00	23.87	C
ATOM	8756	OD1	ASP	C	280	-9.615	60.173	34.595	1.00	22.98	O
ATOM	8757	OD2	ASP	C	280	-8.212	60.537	36.236	1.00	23.55	O
ATOM	8758	N	LEU	C	281	-6.050	63.184	32.129	1.00	20.51	N
ATOM	8759	CA	LEU	C	281	-5.486	64.314	31.407	1.00	22.36	C



ATOM	8760	C	LEU	C	281	-4.156	63.902	30.807	1.00	21.96	C
ATOM	8761	O	LEU	C	281	-3.438	63.082	31.376	1.00	22.08	O
ATOM	8762	CB	LEU	C	281	-5.281	65.518	32.331	1.00	21.62	C
ATOM	8763	CG	LEU	C	281	-6.555	66.166	32.868	1.00	23.52	C
ATOM	8764	CD1	LEU	C	281	-6.572	66.062	34.375	1.00	25.41	C
ATOM	8765	CD2	LEU	C	281	-6.623	67.620	32.435	1.00	22.96	C
ATOM	8766	N	ILE	C	282	-3.838	64.462	29.647	1.00	21.89	N
ATOM	8767	CA	ILE	C	282	-2.583	64.163	28.989	1.00	21.63	C
ATOM	8768	C	ILE	C	282	-1.821	65.459	28.803	1.00	21.39	C
ATOM	8769	O	ILE	C	282	-2.376	66.471	28.374	1.00	21.21	O
ATOM	8770	CB	ILE	C	282	-2.806	63.486	27.631	1.00	23.68	C
ATOM	8771	CG1	ILE	C	282	-3.576	62.178	27.840	1.00	24.60	C
ATOM	8772	CG2	ILE	C	282	-1.458	63.221	26.953	1.00	21.77	C
ATOM	8773	CD1	ILE	C	282	-3.879	61.422	26.567	1.00	27.38	C
ATOM	8774	N	TRP	C	283	-0.540	65.417	29.143	1.00	20.69	N
ATOM	8775	CA	TRP	C	283	0.318	66.581	29.058	1.00	20.98	C
ATOM	8776	C	TRP	C	283	1.588	66.266	28.296	1.00	22.34	C
ATOM	8777	O	TRP	C	283	2.249	65.254	28.534	1.00	21.74	O
ATOM	8778	CB	TRP	C	283	0.611	67.083	30.485	1.00	21.74	C
ATOM	8779	CG	TRP	C	283	1.878	67.885	30.691	1.00	21.14	C
ATOM	8780	CD1	TRP	C	283	2.527	68.670	29.778	1.00	18.23	C
ATOM	8781	CD2	TRP	C	283	2.616	68.002	31.913	1.00	20.48	C
ATOM	8782	NE1	TRP	C	283	3.622	69.265	30.356	1.00	20.36	N
ATOM	8783	CE2	TRP	C	283	3.700	68.874	31.667	1.00	21.74	C
ATOM	8784	CE3	TRP	C	283	2.463	67.457	33.194	1.00	20.41	C
ATOM	8785	CZ2	TRP	C	283	4.632	69.213	32.658	1.00	21.75	C
ATOM	8786	CZ3	TRP	C	283	3.390	67.795	34.182	1.00	21.21	C
ATOM	8787	CH2	TRP	C	283	4.460	68.665	33.906	1.00	21.03	C
ATOM	8788	N	MET	C	284	1.909	67.148	27.358	1.00	23.30	N
ATOM	8789	CA	MET	C	284	3.091	67.007	26.531	1.00	23.53	C
ATOM	8790	C	MET	C	284	4.071	68.151	26.797	1.00	24.94	C
ATOM	8791	O	MET	C	284	3.743	69.318	26.579	1.00	24.52	O
ATOM	8792	CB	MET	C	284	2.686	67.020	25.057	1.00	22.45	C
ATOM	8793	CG	MET	C	284	3.841	67.257	24.113	1.00	25.73	C
ATOM	8794	SD	MET	C	284	3.318	67.775	22.468	1.00	23.84	S
ATOM	8795	CE	MET	C	284	4.924	67.892	21.669	1.00	28.97	C
ATOM	8796	N	GLU	C	285	5.267	67.815	27.273	1.00	26.08	N
ATOM	8797	CA	GLU	C	285	6.295	68.824	27.526	1.00	25.37	C
ATOM	8798	C	GLU	C	285	6.763	69.385	26.186	1.00	26.21	C
ATOM	8799	O	GLU	C	285	6.947	68.633	25.223	1.00	24.41	O
ATOM	8800	CB	GLU	C	285	7.487	68.202	28.256	1.00	25.81	C
ATOM	8801	CG	GLU	C	285	7.339	68.112	29.766	1.00	27.69	C
ATOM	8802	CD	GLU	C	285	7.370	69.478	30.438	1.00	29.50	C
ATOM	8803	OE1	GLU	C	285	6.392	70.247	30.309	1.00	30.91	O
ATOM	8804	OE2	GLU	C	285	8.384	69.786	31.090	1.00	28.35	O
ATOM	8805	N	THR	C	286	6.947	70.702	26.122	1.00	26.02	N
ATOM	8806	CA	THR	C	286	7.404	71.352	24.897	1.00	27.87	C
ATOM	8807	C	THR	C	286	8.596	72.256	25.189	1.00	28.06	C
ATOM	8808	O	THR	C	286	8.779	72.712	26.316	1.00	27.61	O
ATOM	8809	CB	THR	C	286	6.287	72.195	24.247	1.00	28.19	C
ATOM	8810	OG1	THR	C	286	5.801	73.164	25.188	1.00	27.76	O
ATOM	8811	CG2	THR	C	286	5.141	71.304	23.805	1.00	28.10	C
ATOM	8812	N	GLY	C	287	9.402	72.509	24.164	1.00	28.29	N
ATOM	8813	CA	GLY	C	287	10.575	73.343	24.334	1.00	30.46	C
ATOM	8814	C	GLY	C	287	10.330	74.832	24.194	1.00	31.98	C
ATOM	8815	O	GLY	C	287	11.230	75.632	24.449	1.00	33.91	O
ATOM	8816	N	THR	C	288	9.121	75.210	23.787	1.00	31.31	N
ATOM	8817	CA	THR	C	288	8.776	76.615	23.615	1.00	30.64	C
ATOM	8818	C	THR	C	288	7.267	76.793	23.723	1.00	31.27	C
ATOM	8819	O	THR	C	288	6.501	75.886	23.397	1.00	30.82	O
ATOM	8820	CB	THR	C	288	9.188	77.140	22.221	1.00	31.07	C
ATOM	8821	OG1	THR	C	288	8.341	76.550	21.227	1.00	29.82	O
ATOM	8822	CG2	THR	C	288	10.640	76.791	21.908	1.00	29.92	C
ATOM	8823	N	PRO	C	289	6.818	77.972	24.179	1.00	31.20	N
ATOM	8824	CA	PRO	C	289	5.381	78.229	24.306	1.00	31.35	C
ATOM	8825	C	PRO	C	289	4.811	78.482	22.906	1.00	32.43	C
ATOM	8826	O	PRO	C	289	4.815	79.613	22.423	1.00	32.44	O
ATOM	8827	CB	PRO	C	289	5.338	79.468	25.199	1.00	31.16	C
ATOM	8828	CG	PRO	C	289	6.576	80.210	24.791	1.00	32.02	C
ATOM	8829	CD	PRO	C	289	7.610	79.109	24.684	1.00	31.98	C
ATOM	8830	N	ASP	C	290	4.320	77.428	22.261	1.00	32.41	N
ATOM	8831	CA	ASP	C	290	3.797	77.544	20.900	1.00	32.57	C
ATOM	8832	C	ASP	C	290	2.347	77.090	20.738	1.00	31.45	C
ATOM	8833	O	ASP	C	290	2.058	75.896	20.770	1.00	30.74	O
ATOM	8834	CB	ASP	C	290	4.685	76.733	19.955	1.00	33.55	C
ATOM	8835	CG	ASP	C	290	4.426	77.045	18.494	1.00	34.85	C
ATOM	8836	OD1	ASP	C	290	3.259	76.987	18.051	1.00	34.44	O
ATOM	8837	OD2	ASP	C	290	5.404	77.343	17.786	1.00	37.19	O
ATOM	8838	N	LEU	C	291	1.444	78.046	20.535	1.00	31.48	N
ATOM	8839	CA	LEU	C	291	0.026	77.737	20.368	1.00	32.22	C



ATOM	8840	C	LEU	C	291	-0.259	76.846	19.160	1.00	32.33	C
ATOM	8841	O	LEU	C	291	-1.193	76.053	19.182	1.00	33.52	O
ATOM	8842	CB	LEU	C	291	-0.796	79.029	20.252	1.00	30.32	C
ATOM	8843	CG	LEU	C	291	-0.867	79.915	21.503	1.00	32.82	C
ATOM	8844	CD1	LEU	C	291	-1.652	81.177	21.185	1.00	30.93	C
ATOM	8845	CD2	LEU	C	291	-1.529	79.158	22.654	1.00	30.90	C
ATOM	8846	N	GLU	C	292	0.540	76.974	18.106	1.00	32.86	N
ATOM	8847	CA	GLU	C	292	0.333	76.162	16.915	1.00	33.35	C
ATOM	8848	C	GLU	C	292	0.757	74.721	17.178	1.00	32.52	C
ATOM	8849	O	GLU	C	292	0.089	73.779	16.753	1.00	30.29	O
ATOM	8850	CB	GLU	C	292	1.117	76.734	15.735	1.00	35.79	C
ATOM	8851	CG	GLU	C	292	0.269	76.939	14.490	1.00	40.89	C
ATOM	8852	CD	GLU	C	292	-0.376	75.652	13.996	1.00	43.86	C
ATOM	8853	OE1	GLU	C	292	0.361	74.720	13.599	1.00	44.34	O
ATOM	8854	OE2	GLU	C	292	-1.624	75.573	14.008	1.00	45.21	O
ATOM	8855	N	ALA	C	293	1.875	74.554	17.879	1.00	31.59	N
ATOM	8856	CA	ALA	C	293	2.359	73.222	18.207	1.00	30.96	C
ATOM	8857	C	ALA	C	293	1.299	72.586	19.101	1.00	29.68	C
ATOM	8858	O	ALA	C	293	0.918	71.423	18.919	1.00	29.22	O
ATOM	8859	CB	ALA	C	293	3.691	73.315	18.938	1.00	30.37	C
ATOM	8860	N	ALA	C	294	0.818	73.369	20.060	1.00	27.83	N
ATOM	8861	CA	ALA	C	294	-0.211	72.915	20.983	1.00	27.18	C
ATOM	8862	C	ALA	C	294	-1.461	72.463	20.225	1.00	28.65	C
ATOM	8863	O	ALA	C	294	-2.045	71.426	20.546	1.00	28.27	O
ATOM	8864	CB	ALA	C	294	-0.561	74.031	21.957	1.00	25.71	C
ATOM	8865	N	ARG	C	295	-1.869	73.232	19.215	1.00	29.41	N
ATOM	8866	CA	ARG	C	295	-3.056	72.878	18.430	1.00	32.11	C
ATOM	8867	C	ARG	C	295	-2.833	71.562	17.694	1.00	30.99	C
ATOM	8868	O	ARG	C	295	-3.719	70.708	17.620	1.00	30.56	O
ATOM	8869	CB	ARG	C	295	-3.377	73.962	17.397	1.00	33.50	C
ATOM	8870	CG	ARG	C	295	-4.593	73.635	16.539	1.00	36.23	C
ATOM	8871	CD	ARG	C	295	-4.495	74.250	15.145	1.00	42.29	C
ATOM	8872	NE	ARG	C	295	-4.321	75.698	15.185	1.00	47.06	N
ATOM	8873	CZ	ARG	C	295	-5.221	76.553	15.664	1.00	51.38	C
ATOM	8874	NH1	ARG	C	295	-6.375	76.106	16.150	1.00	51.91	N
ATOM	8875	NH2	ARG	C	295	-4.967	77.859	15.661	1.00	51.82	N
ATOM	8876	N	GLN	C	296	-1.637	71.421	17.144	1.00	30.45	N
ATOM	8877	CA	GLN	C	296	-1.257	70.237	16.399	1.00	32.29	C
ATOM	8878	C	GLN	C	296	-1.409	68.984	17.265	1.00	31.15	C
ATOM	8879	O	GLN	C	296	-1.998	67.992	16.843	1.00	31.94	O
ATOM	8880	CB	GLN	C	296	0.189	70.393	15.935	1.00	34.70	C
ATOM	8881	CG	GLN	C	296	0.604	69.478	14.810	1.00	38.37	C
ATOM	8882	CD	GLN	C	296	1.981	69.831	14.282	1.00	41.50	C
ATOM	8883	OE1	GLN	C	296	2.317	71.012	14.134	1.00	39.51	O
ATOM	8884	NE2	GLN	C	296	2.784	68.810	13.987	1.00	42.11	N
ATOM	8885	N	PHE	C	297	-0.874	69.046	18.479	1.00	29.56	N
ATOM	8886	CA	PHE	C	297	-0.940	67.938	19.420	1.00	26.51	C
ATOM	8887	C	PHE	C	297	-2.385	67.661	19.832	1.00	25.91	C
ATOM	8888	O	PHE	C	297	-2.844	66.520	19.796	1.00	23.55	O
ATOM	8889	CB	PHE	C	297	-0.099	68.272	20.657	1.00	25.48	C
ATOM	8890	CG	PHE	C	297	-0.185	67.251	21.747	1.00	24.02	C
ATOM	8891	CD1	PHE	C	297	0.395	65.994	21.590	1.00	23.25	C
ATOM	8892	CD2	PHE	C	297	-0.853	67.543	22.934	1.00	23.74	C
ATOM	8893	CE1	PHE	C	297	0.312	65.041	22.598	1.00	23.40	C
ATOM	8894	CE2	PHE	C	297	-0.944	66.600	23.952	1.00	23.36	C
ATOM	8895	CZ	PHE	C	297	-0.358	65.341	23.782	1.00	25.30	C
ATOM	8896	N	SER	C	298	-3.094	68.717	20.217	1.00	25.69	N
ATOM	8897	CA	SER	C	298	-4.484	68.600	20.648	1.00	28.02	C
ATOM	8898	C	SER	C	298	-5.412	67.957	19.612	1.00	29.15	C
ATOM	8899	O	SER	C	298	-6.151	67.021	19.926	1.00	28.42	O
ATOM	8900	CB	SER	C	298	-5.032	69.977	21.018	1.00	28.10	C
ATOM	8901	OG	SER	C	298	-6.406	69.892	21.348	1.00	32.10	O
ATOM	8902	N	GLU	C	299	-5.376	68.468	18.384	1.00	29.11	N
ATOM	8903	CA	GLU	C	299	-6.222	67.949	17.316	1.00	30.96	C
ATOM	8904	C	GLU	C	299	-5.894	66.494	16.974	1.00	30.75	C
ATOM	8905	O	GLU	C	299	-6.791	65.674	16.784	1.00	30.59	O
ATOM	8906	CB	GLU	C	299	-6.092	68.830	16.066	1.00	32.55	C
ATOM	8907	CG	GLU	C	299	-6.369	70.309	16.335	1.00	35.68	C
ATOM	8908	CD	GLU	C	299	-6.545	71.131	15.069	1.00	38.98	C
ATOM	8909	OE1	GLU	C	299	-5.644	71.112	14.201	1.00	40.06	O
ATOM	8910	OE2	GLU	C	299	-7.589	71.807	14.946	1.00	40.52	O
ATOM	8911	N	ALA	C	300	-4.609	66.169	16.900	1.00	30.77	N
ATOM	8912	CA	ALA	C	300	-4.206	64.803	16.589	1.00	30.20	C
ATOM	8913	C	ALA	C	300	-4.739	63.837	17.646	1.00	30.77	C
ATOM	8914	O	ALA	C	300	-5.262	62.771	17.320	1.00	31.40	O
ATOM	8915	CB	ALA	C	300	-2.690	64.711	16.505	1.00	29.04	C
ATOM	8916	N	VAL	C	301	-4.619	64.220	18.913	1.00	30.56	N
ATOM	8917	CA	VAL	C	301	-5.085	63.377	20.006	1.00	31.10	C
ATOM	8918	C	VAL	C	301	-6.604	63.271	20.048	1.00	31.10	C
ATOM	8919	O	VAL	C	301	-7.155	62.173	20.105	1.00	29.20	O



ATOM	8920	CB	VAL	C	301	-4.592	63.907	21.373	1.00	30.72	C
ATOM	8921	CG1	VAL	C	301	-5.259	63.133	22.504	1.00	30.04	C
ATOM	8922	CG2	VAL	C	301	-3.082	63.777	21.464	1.00	29.93	C
ATOM	8923	N	LYS	C	302	-7.274	64.417	20.029	1.00	32.66	N
ATOM	8924	CA	LYS	C	302	-8.729	64.446	20.080	1.00	34.87	C
ATOM	8925	C	LYS	C	302	-9.368	63.784	18.863	1.00	35.42	C
ATOM	8926	O	LYS	C	302	-10.536	63.404	18.902	1.00	36.63	O
ATOM	8927	CB	LYS	C	302	-9.226	65.891	20.219	1.00	34.22	C
ATOM	8928	CG	LYS	C	302	-9.113	66.445	21.637	1.00	35.59	C
ATOM	8929	CD	LYS	C	302	-9.608	67.878	21.720	1.00	34.27	C
ATOM	8930	CE	LYS	C	302	-9.592	68.391	23.155	1.00	36.77	C
ATOM	8931	NZ	LYS	C	302	-10.549	67.668	24.045	1.00	34.44	N
ATOM	8932	N	ALA	C	303	-8.604	63.640	17.787	1.00	35.68	N
ATOM	8933	CA	ALA	C	303	-9.136	63.007	16.587	1.00	36.99	C
ATOM	8934	C	ALA	C	303	-9.606	61.595	16.937	1.00	38.07	C
ATOM	8935	O	ALA	C	303	-10.610	61.113	16.409	1.00	38.72	O
ATOM	8936	CB	ALA	C	303	-8.069	62.958	15.501	1.00	36.92	C
ATOM	8937	N	GLU	C	304	-8.883	60.938	17.839	1.00	37.86	N
ATOM	8938	CA	GLU	C	304	-9.241	59.589	18.255	1.00	37.83	C
ATOM	8939	C	GLU	C	304	-9.939	59.566	19.609	1.00	36.05	C
ATOM	8940	O	GLU	C	304	-10.718	58.659	19.900	1.00	36.89	O
ATOM	8941	CB	GLU	C	304	-8.000	58.695	18.281	1.00	38.77	C
ATOM	8942	CG	GLU	C	304	-7.616	58.173	16.903	1.00	42.69	C
ATOM	8943	CD	GLU	C	304	-6.412	57.255	16.933	1.00	46.13	C
ATOM	8944	OE1	GLU	C	304	-6.400	56.309	17.756	1.00	47.10	O
ATOM	8945	OE2	GLU	C	304	-5.481	57.476	16.127	1.00	47.24	O
ATOM	8946	N	TYR	C	305	-9.672	60.574	20.429	1.00	33.60	N
ATOM	8947	CA	TYR	C	305	-10.285	60.658	21.746	1.00	32.92	C
ATOM	8948	C	TYR	C	305	-10.821	62.069	21.945	1.00	33.29	C
ATOM	8949	O	TYR	C	305	-10.209	62.887	22.626	1.00	34.02	O
ATOM	8950	CB	TYR	C	305	-9.254	60.321	22.819	1.00	31.81	C
ATOM	8951	CG	TYR	C	305	-8.720	58.909	22.727	1.00	30.31	C
ATOM	8952	CD1	TYR	C	305	-9.419	57.837	23.287	1.00	30.03	C
ATOM	8953	CD2	TYR	C	305	-7.512	58.641	22.086	1.00	29.06	C
ATOM	8954	CE1	TYR	C	305	-8.926	56.533	23.214	1.00	29.75	C
ATOM	8955	CE2	TYR	C	305	-7.009	57.340	22.006	1.00	30.70	C
ATOM	8956	CZ	TYR	C	305	-7.719	56.294	22.574	1.00	30.90	C
ATOM	8957	OH	TYR	C	305	-7.209	55.018	22.517	1.00	32.07	O
ATOM	8958	N	PRO	C	306	-11.983	62.366	21.343	1.00	33.19	N
ATOM	8959	CA	PRO	C	306	-12.669	63.659	21.398	1.00	32.86	C
ATOM	8960	C	PRO	C	306	-12.795	64.291	22.775	1.00	31.98	C
ATOM	8961	O	PRO	C	306	-12.606	65.495	22.924	1.00	32.92	O
ATOM	8962	CB	PRO	C	306	-14.037	63.344	20.794	1.00	32.61	C
ATOM	8963	CG	PRO	C	306	-13.718	62.301	19.798	1.00	32.16	C
ATOM	8964	CD	PRO	C	306	-12.773	61.401	20.559	1.00	32.21	C
ATOM	8965	N	ASP	C	307	-13.117	63.486	23.780	1.00	31.04	N
ATOM	8966	CA	ASP	C	307	-13.297	64.016	25.125	1.00	30.92	C
ATOM	8967	C	ASP	C	307	-12.048	64.055	26.002	1.00	30.03	C
ATOM	8968	O	ASP	C	307	-12.125	64.417	27.175	1.00	30.10	O
ATOM	8969	CB	ASP	C	307	-14.393	63.233	25.847	1.00	33.76	C
ATOM	8970	CG	ASP	C	307	-15.700	63.205	25.068	1.00	35.90	C
ATOM	8971	OD1	ASP	C	307	-15.989	64.189	24.355	1.00	35.89	O
ATOM	8972	OD2	ASP	C	307	-16.442	62.206	25.184	1.00	36.92	O
ATOM	8973	N	GLN	C	308	-10.897	63.698	25.441	1.00	29.08	N
ATOM	8974	CA	GLN	C	308	-9.665	63.699	26.220	1.00	27.31	C
ATOM	8975	C	GLN	C	308	-9.218	65.106	26.587	1.00	27.30	C
ATOM	8976	O	GLN	C	308	-8.855	65.901	25.718	1.00	26.41	O
ATOM	8977	CB	GLN	C	308	-8.547	62.994	25.456	1.00	24.72	C
ATOM	8978	CG	GLN	C	308	-7.231	62.880	26.233	1.00	24.95	C
ATOM	8979	CD	GLN	C	308	-7.372	62.082	27.526	1.00	23.70	C
ATOM	8980	OE1	GLN	C	308	-7.223	62.627	28.625	1.00	21.90	O
ATOM	8981	NE2	GLN	C	308	-7.660	60.791	27.398	1.00	18.63	N
ATOM	8982	N	MET	C	309	-9.247	65.412	27.880	1.00	27.37	N
ATOM	8983	CA	MET	C	309	-8.817	66.718	28.349	1.00	27.58	C
ATOM	8984	C	MET	C	309	-7.294	66.712	28.403	1.00	26.33	C
ATOM	8985	O	MET	C	309	-6.676	65.668	28.619	1.00	25.33	O
ATOM	8986	CB	MET	C	309	-9.405	67.017	29.732	1.00	31.26	C
ATOM	8987	CG	MET	C	309	-10.932	67.045	29.760	1.00	35.74	C
ATOM	8988	SD	MET	C	309	-11.628	67.689	31.304	1.00	40.48	S
ATOM	8989	CE	MET	C	309	-11.245	66.371	32.419	1.00	37.90	C
ATOM	8990	N	LEU	C	310	-6.696	67.878	28.194	1.00	24.79	N
ATOM	8991	CA	LEU	C	310	-5.246	68.006	28.194	1.00	24.38	C
ATOM	8992	C	LEU	C	310	-4.759	68.970	29.277	1.00	24.33	C
ATOM	8993	O	LEU	C	310	-5.550	69.700	29.878	1.00	25.30	O
ATOM	8994	CB	LEU	C	310	-4.782	68.496	26.820	1.00	23.48	C
ATOM	8995	CG	LEU	C	310	-5.312	67.705	25.619	1.00	25.10	C
ATOM	8996	CD1	LEU	C	310	-4.966	68.422	24.329	1.00	23.10	C
ATOM	8997	CD2	LEU	C	310	-4.727	66.301	25.629	1.00	24.45	C
ATOM	8998	N	ALA	C	311	-3.455	68.956	29.534	1.00	22.39	N
ATOM	8999	CA	ALA	C	311	-2.864	69.854	30.520	1.00	20.72	C



ATOM	9000	C	ALA	C	311	-1.656	70.512	29.865	1.00	20.56	C
ATOM	9001	O	ALA	C	311	-0.984	69.902	29.030	1.00	19.58	O
ATOM	9002	CB	ALA	C	311	-2.448	69.083	31.762	1.00	20.08	C
ATOM	9003	N	TYR	C	312	-1.379	71.757	30.232	1.00	19.42	N
ATOM	9004	CA	TYR	C	312	-0.255	72.460	29.636	1.00	20.37	C
ATOM	9005	C	TYR	C	312	0.626	73.177	30.653	1.00	19.96	C
ATOM	9006	O	TYR	C	312	0.141	73.857	31.552	1.00	20.40	O
ATOM	9007	CB	TYR	C	312	-0.765	73.456	28.590	1.00	19.37	C
ATOM	9008	CG	TYR	C	312	0.326	74.027	27.712	1.00	20.02	C
ATOM	9009	CD1	TYR	C	312	1.127	75.083	28.152	1.00	19.21	C
ATOM	9010	CD2	TYR	C	312	0.559	73.508	26.442	1.00	18.82	C
ATOM	9011	CE1	TYR	C	312	2.130	75.608	27.344	1.00	20.62	C
ATOM	9012	CE2	TYR	C	312	1.564	74.024	25.626	1.00	20.37	C
ATOM	9013	CZ	TYR	C	312	2.343	75.072	26.083	1.00	20.56	C
ATOM	9014	OH	TYR	C	312	3.346	75.572	25.288	1.00	22.02	O
ATOM	9015	N	ASN	C	313	1.931	73.021	30.487	1.00	20.74	N
ATOM	9016	CA	ASN	C	313	2.901	73.636	31.374	1.00	21.19	C
ATOM	9017	C	ASN	C	313	3.409	74.964	30.825	1.00	21.65	C
ATOM	9018	O	ASN	C	313	4.226	74.989	29.909	1.00	20.59	O
ATOM	9019	CB	ASN	C	313	4.072	72.669	31.597	1.00	21.35	C
ATOM	9020	CG	ASN	C	313	5.253	73.317	32.302	1.00	20.54	C
ATOM	9021	OD1	ASN	C	313	5.115	74.347	32.963	1.00	20.60	O
ATOM	9022	ND2	ASN	C	313	6.426	72.701	32.172	1.00	22.68	N
ATOM	9023	N	CYS	C	314	2.903	76.063	31.379	1.00	22.96	N
ATOM	9024	CA	CYS	C	314	3.335	77.402	30.976	1.00	24.77	C
ATOM	9025	C	CYS	C	314	4.610	77.619	31.783	1.00	25.27	C
ATOM	9026	O	CYS	C	314	4.622	78.342	32.776	1.00	26.86	O
ATOM	9027	CB	CYS	C	314	2.278	78.439	31.360	1.00	22.87	C
ATOM	9028	SG	CYS	C	314	0.679	78.220	30.530	1.00	26.09	S
ATOM	9029	N	SER	C	315	5.682	76.982	31.326	1.00	25.33	N
ATOM	9030	CA	SER	C	315	6.971	76.996	31.999	1.00	25.08	C
ATOM	9031	C	SER	C	315	7.833	78.257	32.052	1.00	26.01	C
ATOM	9032	O	SER	C	315	7.970	78.981	31.070	1.00	25.52	O
ATOM	9033	CB	SER	C	315	7.817	75.852	31.441	1.00	23.10	C
ATOM	9034	OG	SER	C	315	9.117	75.871	31.992	1.00	21.42	O
ATOM	9035	N	PRO	C	316	8.417	78.537	33.230	1.00	27.54	N
ATOM	9036	CA	PRO	C	316	9.287	79.703	33.414	1.00	26.73	C
ATOM	9037	C	PRO	C	316	10.645	79.374	32.786	1.00	28.04	C
ATOM	9038	O	PRO	C	316	11.580	80.176	32.827	1.00	27.83	O
ATOM	9039	CB	PRO	C	316	9.372	79.837	34.933	1.00	25.97	C
ATOM	9040	CG	PRO	C	316	8.049	79.295	35.391	1.00	26.56	C
ATOM	9041	CD	PRO	C	316	7.924	78.056	34.533	1.00	27.35	C
ATOM	9042	N	SER	C	317	10.746	78.173	32.221	1.00	28.69	N
ATOM	9043	CA	SER	C	317	11.973	77.735	31.568	1.00	30.87	C
ATOM	9044	C	SER	C	317	11.984	78.279	30.146	1.00	31.78	C
ATOM	9045	O	SER	C	317	12.883	77.985	29.360	1.00	31.69	O
ATOM	9046	CB	SER	C	317	12.067	76.206	31.544	1.00	31.50	C
ATOM	9047	OG	SER	C	317	12.399	75.697	32.826	1.00	32.16	O
ATOM	9048	N	PHE	C	318	10.956	79.057	29.823	1.00	31.96	N
ATOM	9049	CA	PHE	C	318	10.849	79.689	28.518	1.00	32.11	C
ATOM	9050	C	PHE	C	318	11.121	81.167	28.741	1.00	33.01	C
ATOM	9051	O	PHE	C	318	10.769	81.706	29.787	1.00	33.61	O
ATOM	9052	CB	PHE	C	318	9.433	79.575	27.935	1.00	32.07	C
ATOM	9053	CG	PHE	C	318	8.955	78.170	27.711	1.00	30.43	C
ATOM	9054	CD1	PHE	C	318	9.817	77.182	27.239	1.00	30.60	C
ATOM	9055	CD2	PHE	C	318	7.614	77.852	27.912	1.00	31.13	C
ATOM	9056	CE1	PHE	C	318	9.350	75.892	26.968	1.00	31.83	C
ATOM	9057	CE2	PHE	C	318	7.129	76.562	27.642	1.00	32.87	C
ATOM	9058	CZ	PHE	C	318	7.999	75.581	27.169	1.00	31.19	C
ATOM	9059	N	ASN	C	319	11.751	81.817	27.768	1.00	33.78	N
ATOM	9060	CA	ASN	C	319	12.003	83.251	27.858	1.00	33.51	C
ATOM	9061	C	ASN	C	319	10.834	83.819	27.068	1.00	34.30	C
ATOM	9062	O	ASN	C	319	10.947	84.114	25.880	1.00	35.71	O
ATOM	9063	CB	ASN	C	319	13.334	83.611	27.194	1.00	33.50	C
ATOM	9064	CG	ASN	C	319	13.646	85.102	27.268	1.00	33.27	C
ATOM	9065	OD1	ASN	C	319	14.776	85.524	27.012	1.00	33.44	O
ATOM	9066	ND2	ASN	C	319	12.642	85.905	27.606	1.00	31.25	N
ATOM	9067	N	TRP	C	320	9.702	83.953	27.747	1.00	34.93	N
ATOM	9068	CA	TRP	C	320	8.468	84.417	27.135	1.00	34.43	C
ATOM	9069	C	TRP	C	320	8.499	85.571	26.145	1.00	36.86	C
ATOM	9070	O	TRP	C	320	8.026	85.414	25.014	1.00	36.66	O
ATOM	9071	CB	TRP	C	320	7.430	84.683	28.224	1.00	32.38	C
ATOM	9072	CG	TRP	C	320	7.000	83.408	28.874	1.00	31.41	C
ATOM	9073	CD1	TRP	C	320	7.668	82.716	29.845	1.00	31.38	C
ATOM	9074	CD2	TRP	C	320	5.856	82.616	28.531	1.00	29.82	C
ATOM	9075	NE1	TRP	C	320	7.013	81.541	30.126	1.00	31.32	N
ATOM	9076	CE2	TRP	C	320	5.897	81.454	29.334	1.00	30.74	C
ATOM	9077	CE3	TRP	C	320	4.801	82.774	27.621	1.00	28.03	C
ATOM	9078	CZ2	TRP	C	320	4.920	80.453	29.256	1.00	28.51	C
ATOM	9079	CZ3	TRP	C	320	3.831	81.780	27.544	1.00	27.29	C



ATOM	9080	CH2	TRP	C	320	3.899	80.635	28.359	1.00	27.14	C
ATOM	9081	N	LYS	C	321	9.033	86.723	26.536	1.00	37.78	N
ATOM	9082	CA	LYS	C	321	9.061	87.847	25.605	1.00	38.63	C
ATOM	9083	C	LYS	C	321	10.008	87.623	24.435	1.00	40.16	C
ATOM	9084	O	LYS	C	321	9.965	88.355	23.450	1.00	41.57	O
ATOM	9085	CB	LYS	C	321	9.404	89.150	26.332	1.00	38.25	C
ATOM	9086	CG	LYS	C	321	8.239	89.692	27.165	1.00	38.65	C
ATOM	9087	CD	LYS	C	321	8.544	91.059	27.756	1.00	39.42	C
ATOM	9088	CE	LYS	C	321	8.609	92.135	26.685	1.00	41.15	C
ATOM	9089	NZ	LYS	C	321	7.278	92.400	26.067	1.00	40.66	N
ATOM	9090	N	LYS	C	322	10.856	86.606	24.533	1.00	41.49	N
ATOM	9091	CA	LYS	C	322	11.784	86.300	23.451	1.00	42.79	C
ATOM	9092	C	LYS	C	322	11.080	85.462	22.380	1.00	42.96	C
ATOM	9093	O	LYS	C	322	11.551	85.362	21.247	1.00	43.78	O
ATOM	9094	CB	LYS	C	322	12.999	85.535	23.990	1.00	43.54	C
ATOM	9095	CG	LYS	C	322	13.958	85.040	22.911	1.00	45.90	C
ATOM	9096	CD	LYS	C	322	15.152	84.297	23.506	1.00	49.13	C
ATOM	9097	CE	LYS	C	322	16.117	83.818	22.416	1.00	51.29	C
ATOM	9098	NZ	LYS	C	322	17.318	83.118	22.970	1.00	52.13	N
ATOM	9099	N	HIS	C	323	9.945	84.870	22.739	1.00	41.53	N
ATOM	9100	CA	HIS	C	323	9.201	84.025	21.809	1.00	41.89	C
ATOM	9101	C	HIS	C	323	7.864	84.597	21.352	1.00	40.39	C
ATOM	9102	O	HIS	C	323	7.428	84.337	20.229	1.00	40.17	O
ATOM	9103	CB	HIS	C	323	8.949	82.644	22.435	1.00	43.36	C
ATOM	9104	CG	HIS	C	323	10.183	81.808	22.582	1.00	46.06	C
ATOM	9105	ND1	HIS	C	323	10.884	81.319	21.501	1.00	47.50	N
ATOM	9106	CD2	HIS	C	323	10.852	81.393	23.683	1.00	47.12	C
ATOM	9107	CE1	HIS	C	323	11.933	80.640	21.929	1.00	48.17	C
ATOM	9108	NE2	HIS	C	323	11.938	80.670	23.249	1.00	47.82	N
ATOM	9109	N	LEU	C	324	7.219	85.379	22.210	1.00	37.07	N
ATOM	9110	CA	LEU	C	324	5.911	85.927	21.884	1.00	34.35	C
ATOM	9111	C	LEU	C	324	5.766	87.420	22.166	1.00	35.46	C
ATOM	9112	O	LEU	C	324	6.525	87.987	22.953	1.00	34.51	O
ATOM	9113	CB	LEU	C	324	4.849	85.172	22.683	1.00	32.79	C
ATOM	9114	CG	LEU	C	324	4.932	83.642	22.707	1.00	32.44	C
ATOM	9115	CD1	LEU	C	324	3.953	83.086	23.738	1.00	28.39	C
ATOM	9116	CD2	LEU	C	324	4.630	83.090	21.317	1.00	30.23	C
ATOM	9117	N	ASP	C	325	4.786	88.049	21.516	1.00	35.33	N
ATOM	9118	CA	ASP	C	325	4.510	89.467	21.737	1.00	36.94	C
ATOM	9119	C	ASP	C	325	3.497	89.544	22.878	1.00	36.54	C
ATOM	9120	O	ASP	C	325	2.855	88.541	23.206	1.00	36.77	O
ATOM	9121	CB	ASP	C	325	3.947	90.141	20.475	1.00	38.18	C
ATOM	9122	CG	ASP	C	325	2.673	89.482	19.959	1.00	39.71	C
ATOM	9123	OD1	ASP	C	325	1.807	89.093	20.770	1.00	40.49	O
ATOM	9124	OD2	ASP	C	325	2.527	89.373	18.725	1.00	41.97	O
ATOM	9125	N	ASP	C	326	3.350	90.719	23.483	1.00	35.79	N
ATOM	9126	CA	ASP	C	326	2.431	90.876	24.606	1.00	34.70	C
ATOM	9127	C	ASP	C	326	1.001	90.469	24.308	1.00	34.43	C
ATOM	9128	O	ASP	C	326	0.287	90.004	25.198	1.00	34.60	O
ATOM	9129	CB	ASP	C	326	2.445	92.317	25.125	1.00	34.55	C
ATOM	9130	CG	ASP	C	326	3.798	92.723	25.666	1.00	35.04	C
ATOM	9131	OD1	ASP	C	326	4.468	91.868	26.286	1.00	33.80	O
ATOM	9132	OD2	ASP	C	326	4.186	93.896	25.480	1.00	36.67	O
ATOM	9133	N	ALA	C	327	0.576	90.644	23.063	1.00	33.43	N
ATOM	9134	CA	ALA	C	327	-0.783	90.283	22.686	1.00	33.81	C
ATOM	9135	C	ALA	C	327	-1.004	88.776	22.832	1.00	33.33	C
ATOM	9136	O	ALA	C	327	-1.985	88.341	23.438	1.00	33.01	O
ATOM	9137	CB	ALA	C	327	-1.062	90.721	21.254	1.00	34.68	C
ATOM	9138	N	THR	C	328	-0.085	87.987	22.279	1.00	32.26	N
ATOM	9139	CA	THR	C	328	-0.176	86.530	22.346	1.00	31.04	C
ATOM	9140	C	THR	C	328	-0.024	86.060	23.793	1.00	29.50	C
ATOM	9141	O	THR	C	328	-0.746	85.171	24.250	1.00	27.87	O
ATOM	9142	CB	THR	C	328	0.920	85.864	21.485	1.00	32.71	C
ATOM	9143	OG1	THR	C	328	0.842	86.356	20.140	1.00	33.85	O
ATOM	9144	CG2	THR	C	328	0.741	84.351	21.471	1.00	32.95	C
ATOM	9145	N	ILE	C	329	0.924	86.662	24.503	1.00	27.88	N
ATOM	9146	CA	ILE	C	329	1.173	86.325	25.898	1.00	27.88	C
ATOM	9147	C	ILE	C	329	-0.112	86.481	26.699	1.00	28.36	C
ATOM	9148	O	ILE	C	329	-0.446	85.630	27.523	1.00	30.22	O
ATOM	9149	CB	ILE	C	329	2.254	87.248	26.505	1.00	27.56	C
ATOM	9150	CG1	ILE	C	329	3.627	86.872	25.942	1.00	28.89	C
ATOM	9151	CG2	ILE	C	329	2.236	87.159	28.019	1.00	28.19	C
ATOM	9152	CD1	ILE	C	329	4.766	87.754	26.443	1.00	27.39	C
ATOM	9153	N	ALA	C	330	-0.833	87.566	26.435	1.00	26.82	N
ATOM	9154	CA	ALA	C	330	-2.081	87.866	27.131	1.00	28.27	C
ATOM	9155	C	ALA	C	330	-3.214	86.885	26.843	1.00	28.47	C
ATOM	9156	O	ALA	C	330	-4.046	86.613	27.714	1.00	28.47	O
ATOM	9157	CB	ALA	C	330	-2.536	89.298	26.787	1.00	26.66	C
ATOM	9158	N	LYS	C	331	-3.253	86.356	25.625	1.00	28.26	N
ATOM	9159	CA	LYS	C	331	-4.311	85.428	25.242	1.00	29.49	C



ATOM	9160	C	LYS	C	331	-3.871	83.967	25.325	1.00	29.12	C
ATOM	9161	O	LYS	C	331	-4.686	83.061	25.154	1.00	28.21	O
ATOM	9162	CB	LYS	C	331	-4.767	85.724	23.811	1.00	30.97	C
ATOM	9163	CG	LYS	C	331	-3.662	85.498	22.775	1.00	35.00	C
ATOM	9164	CD	LYS	C	331	-4.160	85.630	21.336	1.00	37.69	C
ATOM	9165	CE	LYS	C	331	-3.074	85.200	20.345	1.00	37.55	C
ATOM	9166	NZ	LYS	C	331	-3.530	85.239	18.924	1.00	39.14	N
ATOM	9167	N	PHE	C	332	-2.589	83.741	25.598	1.00	27.86	N
ATOM	9168	CA	PHE	C	332	-2.045	82.386	25.660	1.00	27.52	C
ATOM	9169	C	PHE	C	332	-2.924	81.323	26.317	1.00	26.83	C
ATOM	9170	O	PHE	C	332	-3.333	80.364	25.657	1.00	26.08	O
ATOM	9171	CB	PHE	C	332	-0.681	82.385	26.342	1.00	27.59	C
ATOM	9172	CG	PHE	C	332	0.156	81.197	25.988	1.00	29.71	C
ATOM	9173	CD1	PHE	C	332	0.737	81.096	24.728	1.00	29.73	C
ATOM	9174	CD2	PHE	C	332	0.333	80.157	26.896	1.00	29.91	C
ATOM	9175	CE1	PHE	C	332	1.485	79.974	24.370	1.00	31.37	C
ATOM	9176	CE2	PHE	C	332	1.077	79.030	26.552	1.00	30.11	C
ATOM	9177	CZ	PHE	C	332	1.655	78.937	25.286	1.00	30.43	C
ATOM	9178	N	GLN	C	333	-3.216	81.483	27.605	1.00	25.69	N
ATOM	9179	CA	GLN	C	333	-4.032	80.495	28.308	1.00	26.37	C
ATOM	9180	C	GLN	C	333	-5.447	80.360	27.763	1.00	26.58	C
ATOM	9181	O	GLN	C	333	-5.957	79.245	27.623	1.00	24.81	O
ATOM	9182	CB	GLN	C	333	-4.105	80.802	29.805	1.00	24.00	C
ATOM	9183	CG	GLN	C	333	-2.774	80.730	30.523	1.00	24.74	C
ATOM	9184	CD	GLN	C	333	-2.914	80.207	31.942	1.00	23.88	C
ATOM	9185	OE1	GLN	C	333	-3.960	80.364	32.574	1.00	22.09	O
ATOM	9186	NE2	GLN	C	333	-1.851	79.590	32.454	1.00	24.21	N
ATOM	9187	N	LYS	C	334	-6.085	81.488	27.467	1.00	27.56	N
ATOM	9188	CA	LYS	C	334	-7.446	81.459	26.941	1.00	30.11	C
ATOM	9189	C	LYS	C	334	-7.486	80.646	25.652	1.00	30.02	C
ATOM	9190	O	LYS	C	334	-8.434	79.904	25.410	1.00	30.74	O
ATOM	9191	CB	LYS	C	334	-7.960	82.880	26.679	1.00	32.63	C
ATOM	9192	CG	LYS	C	334	-9.424	82.924	26.261	1.00	35.02	C
ATOM	9193	CD	LYS	C	334	-9.912	84.352	26.041	1.00	39.13	C
ATOM	9194	CE	LYS	C	334	-11.379	84.367	25.608	1.00	41.15	C
ATOM	9195	NZ	LYS	C	334	-12.256	83.679	26.609	1.00	42.07	N
ATOM	9196	N	GLU	C	335	-6.442	80.787	24.839	1.00	30.13	N
ATOM	9197	CA	GLU	C	335	-6.327	80.060	23.581	1.00	31.37	C
ATOM	9198	C	GLU	C	335	-6.177	78.564	23.837	1.00	30.09	C
ATOM	9199	O	GLU	C	335	-6.890	77.749	23.253	1.00	29.77	O
ATOM	9200	CB	GLU	C	335	-5.120	80.569	22.792	1.00	33.85	C
ATOM	9201	CG	GLU	C	335	-5.344	81.920	22.140	1.00	38.68	C
ATOM	9202	CD	GLU	C	335	-6.404	81.860	21.055	1.00	40.27	C
ATOM	9203	OE1	GLU	C	335	-6.214	81.091	20.090	1.00	40.59	O
ATOM	9204	OE2	GLU	C	335	-7.422	82.575	21.167	1.00	41.95	O
ATOM	9205	N	LEU	C	336	-5.240	78.211	24.710	1.00	28.53	N
ATOM	9206	CA	LEU	C	336	-5.008	76.816	25.056	1.00	25.94	C
ATOM	9207	C	LEU	C	336	-6.301	76.167	25.542	1.00	25.02	C
ATOM	9208	O	LEU	C	336	-6.595	75.024	25.208	1.00	25.04	O
ATOM	9209	CB	LEU	C	336	-3.929	76.710	26.139	1.00	25.55	C
ATOM	9210	CG	LEU	C	336	-2.493	77.037	25.711	1.00	24.05	C
ATOM	9211	CD1	LEU	C	336	-1.560	76.884	26.899	1.00	25.44	C
ATOM	9212	CD2	LEU	C	336	-2.070	76.109	24.583	1.00	24.35	C
ATOM	9213	N	ALA	C	337	-7.074	76.903	26.331	1.00	25.27	N
ATOM	9214	CA	ALA	C	337	-8.332	76.377	26.845	1.00	26.18	C
ATOM	9215	C	ALA	C	337	-9.264	76.028	25.685	1.00	26.81	C
ATOM	9216	O	ALA	C	337	-9.882	74.957	25.665	1.00	26.76	O
ATOM	9217	CB	ALA	C	337	-8.997	77.402	27.770	1.00	25.41	C
ATOM	9218	N	ALA	C	338	-9.350	76.931	24.714	1.00	25.76	N
ATOM	9219	CA	ALA	C	338	-10.206	76.724	23.555	1.00	26.46	C
ATOM	9220	C	ALA	C	338	-9.798	75.460	22.809	1.00	26.84	C
ATOM	9221	O	ALA	C	338	-10.585	74.894	22.052	1.00	26.08	O
ATOM	9222	CB	ALA	C	338	-10.124	77.926	22.629	1.00	25.72	C
ATOM	9223	N	MET	C	339	-8.570	75.008	23.035	1.00	26.28	N
ATOM	9224	CA	MET	C	339	-8.087	73.819	22.359	1.00	26.40	C
ATOM	9225	C	MET	C	339	-8.056	72.544	23.201	1.00	26.58	C
ATOM	9226	O	MET	C	339	-7.397	71.570	22.840	1.00	26.97	O
ATOM	9227	CB	MET	C	339	-6.712	74.100	21.764	1.00	27.16	C
ATOM	9228	CG	MET	C	339	-6.747	75.248	20.780	1.00	29.44	C
ATOM	9229	SD	MET	C	339	-5.259	75.394	19.821	1.00	32.17	S
ATOM	9230	CE	MET	C	339	-4.166	76.125	21.063	1.00	27.79	C
ATOM	9231	N	GLY	C	340	-8.773	72.542	24.317	1.00	25.67	N
ATOM	9232	CA	GLY	C	340	-8.816	71.349	25.145	1.00	25.64	C
ATOM	9233	C	GLY	C	340	-7.863	71.279	26.323	1.00	24.80	C
ATOM	9234	O	GLY	C	340	-7.897	70.313	27.082	1.00	24.84	O
ATOM	9235	N	PHE	C	341	-7.011	72.286	26.477	1.00	24.53	N
ATOM	9236	CA	PHE	C	341	-6.070	72.318	27.591	1.00	25.93	C
ATOM	9237	C	PHE	C	341	-6.794	72.918	28.786	1.00	25.36	C
ATOM	9238	O	PHE	C	341	-6.781	74.132	28.986	1.00	26.25	O
ATOM	9239	CB	PHE	C	341	-4.848	73.155	27.210	1.00	24.55	C



ATOM	9240	CG	PHE	C	341	-4.051	72.562	26.090	1.00	25.82	C
ATOM	9241	CD1	PHE	C	341	-3.235	71.457	26.313	1.00	26.97	C
ATOM	9242	CD2	PHE	C	341	-4.152	73.072	24.799	1.00	26.31	C
ATOM	9243	CE1	PHE	C	341	-2.529	70.862	25.265	1.00	28.39	C
ATOM	9244	CE2	PHE	C	341	-3.455	72.489	23.741	1.00	27.41	C
ATOM	9245	CZ	PHE	C	341	-2.641	71.382	23.971	1.00	28.57	C
ATOM	9246	N	LYS	C	342	-7.424	72.050	29.575	1.00	25.25	N
ATOM	9247	CA	LYS	C	342	-8.205	72.467	30.736	1.00	24.74	C
ATOM	9248	C	LYS	C	342	-7.471	72.643	32.065	1.00	25.46	C
ATOM	9249	O	LYS	C	342	-8.076	73.082	33.046	1.00	25.14	O
ATOM	9250	CB	LYS	C	342	-9.383	71.511	30.921	1.00	26.81	C
ATOM	9251	CG	LYS	C	342	-10.301	71.434	29.707	1.00	27.93	C
ATOM	9252	CD	LYS	C	342	-10.817	72.816	29.321	1.00	31.97	C
ATOM	9253	CE	LYS	C	342	-11.725	72.754	28.097	1.00	33.53	C
ATOM	9254	NZ	LYS	C	342	-12.111	74.119	27.636	1.00	35.83	N
ATOM	9255	N	PHE	C	343	-6.192	72.279	32.121	1.00	23.85	N
ATOM	9256	CA	PHE	C	343	-5.416	72.477	33.348	1.00	22.72	C
ATOM	9257	C	PHE	C	343	-4.077	73.077	32.958	1.00	21.61	C
ATOM	9258	O	PHE	C	343	-3.242	72.421	32.331	1.00	21.65	O
ATOM	9259	CB	PHE	C	343	-5.185	71.175	34.126	1.00	21.92	C
ATOM	9260	CG	PHE	C	343	-4.461	71.389	35.433	1.00	22.55	C
ATOM	9261	CD1	PHE	C	343	-5.078	72.070	36.476	1.00	22.10	C
ATOM	9262	CD2	PHE	C	343	-3.146	70.966	35.602	1.00	21.12	C
ATOM	9263	CE1	PHE	C	343	-4.400	72.332	37.665	1.00	20.58	C
ATOM	9264	CE2	PHE	C	343	-2.463	71.225	36.788	1.00	20.38	C
ATOM	9265	CZ	PHE	C	343	-3.088	71.908	37.818	1.00	20.97	C
ATOM	9266	N	GLN	C	344	-3.879	74.332	33.341	1.00	20.04	N
ATOM	9267	CA	GLN	C	344	-2.664	75.044	32.998	1.00	19.03	C
ATOM	9268	C	GLN	C	344	-1.981	75.526	34.265	1.00	18.66	C
ATOM	9269	O	GLN	C	344	-2.636	75.930	35.224	1.00	18.49	O
ATOM	9270	CB	GLN	C	344	-3.023	76.203	32.067	1.00	19.87	C
ATOM	9271	CG	GLN	C	344	-3.993	75.769	30.962	1.00	20.16	C
ATOM	9272	CD	GLN	C	344	-4.333	76.880	29.989	1.00	21.24	C
ATOM	9273	OE1	GLN	C	344	-5.338	76.813	29.280	1.00	22.41	O
ATOM	9274	NE2	GLN	C	344	-3.495	77.900	29.943	1.00	22.29	N
ATOM	9275	N	PHE	C	345	-0.657	75.494	34.264	1.00	17.28	N
ATOM	9276	CA	PHE	C	345	0.083	75.869	35.451	1.00	18.52	C
ATOM	9277	C	PHE	C	345	1.479	76.389	35.170	1.00	18.14	C
ATOM	9278	O	PHE	C	345	2.131	75.982	34.215	1.00	18.94	O
ATOM	9279	CB	PHE	C	345	0.203	74.643	36.365	1.00	19.26	C
ATOM	9280	CG	PHE	C	345	0.726	73.409	35.654	1.00	20.78	C
ATOM	9281	CD1	PHE	C	345	-0.114	72.645	34.848	1.00	18.73	C
ATOM	9282	CD2	PHE	C	345	2.062	73.037	35.764	1.00	19.43	C
ATOM	9283	CE1	PHE	C	345	0.367	71.529	34.160	1.00	20.06	C
ATOM	9284	CE2	PHE	C	345	2.556	71.924	35.081	1.00	20.22	C
ATOM	9285	CZ	PHE	C	345	1.705	71.168	34.276	1.00	21.16	C
ATOM	9286	N	ILE	C	346	1.935	77.294	36.023	1.00	20.15	N
ATOM	9287	CA	ILE	C	346	3.279	77.829	35.902	1.00	20.22	C
ATOM	9288	C	ILE	C	346	4.061	77.094	36.991	1.00	19.21	C
ATOM	9289	O	ILE	C	346	4.007	77.449	38.166	1.00	19.41	O
ATOM	9290	CB	ILE	C	346	3.315	79.343	36.155	1.00	20.04	C
ATOM	9291	CG1	ILE	C	346	2.413	80.057	35.143	1.00	20.22	C
ATOM	9292	CG2	ILE	C	346	4.753	79.852	36.036	1.00	19.46	C
ATOM	9293	CD1	ILE	C	346	2.448	81.572	35.245	1.00	17.71	C
ATOM	9294	N	THR	C	347	4.762	76.050	36.575	1.00	19.07	N
ATOM	9295	CA	THR	C	347	5.538	75.197	37.465	1.00	20.15	C
ATOM	9296	C	THR	C	347	6.395	75.879	38.521	1.00	21.42	C
ATOM	9297	O	THR	C	347	6.257	75.605	39.717	1.00	20.95	O
ATOM	9298	CB	THR	C	347	6.476	74.304	36.661	1.00	20.96	C
ATOM	9299	OG1	THR	C	347	7.263	75.134	35.798	1.00	22.49	O
ATOM	9300	CG2	THR	C	347	5.690	73.288	35.837	1.00	18.22	C
ATOM	9301	N	LEU	C	348	7.284	76.761	38.078	1.00	19.46	N
ATOM	9302	CA	LEU	C	348	8.205	77.410	38.997	1.00	20.59	C
ATOM	9303	C	LEU	C	348	7.820	78.805	39.482	1.00	20.82	C
ATOM	9304	O	LEU	C	348	8.689	79.622	39.754	1.00	20.56	O
ATOM	9305	CB	LEU	C	348	9.602	77.445	38.366	1.00	19.82	C
ATOM	9306	CG	LEU	C	348	10.066	76.151	37.679	1.00	22.54	C
ATOM	9307	CD1	LEU	C	348	11.551	76.260	37.307	1.00	22.47	C
ATOM	9308	CD2	LEU	C	348	9.837	74.956	38.605	1.00	23.27	C
ATOM	9309	N	ALA	C	349	6.526	79.074	39.607	1.00	20.59	N
ATOM	9310	CA	ALA	C	349	6.080	80.381	40.077	1.00	21.56	C
ATOM	9311	C	ALA	C	349	6.568	80.658	41.503	1.00	21.01	C
ATOM	9312	O	ALA	C	349	7.029	81.753	41.813	1.00	21.50	O
ATOM	9313	CB	ALA	C	349	4.557	80.466	40.017	1.00	20.54	C
ATOM	9314	N	GLY	C	350	6.462	79.660	42.370	1.00	21.19	N
ATOM	9315	CA	GLY	C	350	6.892	79.836	43.744	1.00	19.75	C
ATOM	9316	C	GLY	C	350	8.377	80.103	43.862	1.00	21.18	C
ATOM	9317	O	GLY	C	350	8.791	81.030	44.566	1.00	23.04	O
ATOM	9318	N	PHE	C	351	9.187	79.294	43.185	1.00	19.32	N
ATOM	9319	CA	PHE	C	351	10.637	79.471	43.230	1.00	20.41	C



ATOM	9320	C	PHE	C	351	11.024	80.896	42.840	1.00	21.33	C
ATOM	9321	O	PHE	C	351	11.840	81.532	43.510	1.00	21.50	O
ATOM	9322	CB	PHE	C	351	11.329	78.491	42.278	1.00	20.09	C
ATOM	9323	CG	PHE	C	351	12.807	78.754	42.092	1.00	21.71	C
ATOM	9324	CD1	PHE	C	351	13.744	78.237	42.989	1.00	21.06	C
ATOM	9325	CD2	PHE	C	351	13.262	79.517	41.013	1.00	20.88	C
ATOM	9326	CE1	PHE	C	351	15.112	78.471	42.813	1.00	20.07	C
ATOM	9327	CE2	PHE	C	351	14.630	79.760	40.826	1.00	19.61	C
ATOM	9328	CZ	PHE	C	351	15.556	79.235	41.727	1.00	21.10	C
ATOM	9329	N	HIS	C	352	10.442	81.397	41.754	1.00	20.33	N
ATOM	9330	CA	HIS	C	352	10.778	82.734	41.290	1.00	21.44	C
ATOM	9331	C	HIS	C	352	10.232	83.844	42.173	1.00	21.77	C
ATOM	9332	O	HIS	C	352	10.964	84.769	42.516	1.00	24.17	O
ATOM	9333	CB	HIS	C	352	10.341	82.918	39.832	1.00	20.39	C
ATOM	9334	CG	HIS	C	352	11.227	82.208	38.856	1.00	20.33	C
ATOM	9335	ND1	HIS	C	352	12.545	82.561	38.658	1.00	20.77	N
ATOM	9336	CD2	HIS	C	352	11.009	81.124	38.074	1.00	21.10	C
ATOM	9337	CE1	HIS	C	352	13.102	81.723	37.802	1.00	18.97	C
ATOM	9338	NE2	HIS	C	352	12.192	80.840	37.433	1.00	21.65	N
ATOM	9339	N	ALA	C	353	8.965	83.765	42.564	1.00	20.72	N
ATOM	9340	CA	ALA	C	353	8.421	84.807	43.422	1.00	21.21	C
ATOM	9341	C	ALA	C	353	9.250	84.908	44.702	1.00	22.03	C
ATOM	9342	O	ALA	C	353	9.593	86.007	45.137	1.00	22.89	O
ATOM	9343	CB	ALA	C	353	6.960	84.516	43.764	1.00	19.75	C
ATOM	9344	N	LEU	C	354	9.581	83.759	45.293	1.00	22.31	N
ATOM	9345	CA	LEU	C	354	10.345	83.722	46.541	1.00	20.96	C
ATOM	9346	C	LEU	C	354	11.773	84.217	46.392	1.00	21.53	C
ATOM	9347	O	LEU	C	354	12.216	85.061	47.171	1.00	23.10	O
ATOM	9348	CB	LEU	C	354	10.343	82.301	47.135	1.00	19.75	C
ATOM	9349	CG	LEU	C	354	11.109	82.019	48.439	1.00	17.76	C
ATOM	9350	CD1	LEU	C	354	10.528	80.774	49.111	1.00	17.61	C
ATOM	9351	CD2	LEU	C	354	12.595	81.823	48.148	1.00	15.88	C
ATOM	9352	N	ASN	C	355	12.492	83.700	45.401	1.00	21.51	N
ATOM	9353	CA	ASN	C	355	13.875	84.103	45.185	1.00	21.48	C
ATOM	9354	C	ASN	C	355	13.987	85.564	44.775	1.00	23.50	C
ATOM	9355	O	ASN	C	355	14.887	86.271	45.234	1.00	23.17	O
ATOM	9356	CB	ASN	C	355	14.534	83.215	44.129	1.00	22.29	C
ATOM	9357	CG	ASN	C	355	15.004	81.884	44.696	1.00	23.95	C
ATOM	9358	OD1	ASN	C	355	16.117	81.779	45.218	1.00	23.31	O
ATOM	9359	ND2	ASN	C	355	14.154	80.864	44.606	1.00	18.68	N
ATOM	9360	N	TYR	C	356	13.080	86.032	43.922	1.00	23.57	N
ATOM	9361	CA	TYR	C	356	13.158	87.425	43.501	1.00	24.68	C
ATOM	9362	C	TYR	C	356	12.771	88.398	44.611	1.00	25.10	C
ATOM	9363	O	TYR	C	356	13.479	89.369	44.875	1.00	24.85	O
ATOM	9364	CB	TYR	C	356	12.270	87.710	42.289	1.00	24.10	C
ATOM	9365	CG	TYR	C	356	12.332	89.169	41.919	1.00	26.13	C
ATOM	9366	CD1	TYR	C	356	13.502	89.722	41.387	1.00	25.20	C
ATOM	9367	CD2	TYR	C	356	11.267	90.022	42.193	1.00	26.08	C
ATOM	9368	CE1	TYR	C	356	13.608	91.087	41.147	1.00	26.67	C
ATOM	9369	CE2	TYR	C	356	11.364	91.392	41.954	1.00	26.41	C
ATOM	9370	CZ	TYR	C	356	12.538	91.915	41.435	1.00	26.85	C
ATOM	9371	OH	TYR	C	356	12.647	93.274	41.231	1.00	29.93	O
ATOM	9372	N	SER	C	357	11.637	88.143	45.249	1.00	25.65	N
ATOM	9373	CA	SER	C	357	11.167	89.007	46.313	1.00	24.97	C
ATOM	9374	C	SER	C	357	12.199	89.166	47.427	1.00	25.86	C
ATOM	9375	O	SER	C	357	12.332	90.251	47.996	1.00	27.20	O
ATOM	9376	CB	SER	C	357	9.870	88.457	46.897	1.00	25.85	C
ATOM	9377	OG	SER	C	357	10.077	87.171	47.455	1.00	28.11	O
ATOM	9378	N	MET	C	358	12.932	88.100	47.742	1.00	24.79	N
ATOM	9379	CA	MET	C	358	13.920	88.182	48.815	1.00	24.19	C
ATOM	9380	C	MET	C	358	15.196	88.870	48.360	1.00	25.15	C
ATOM	9381	O	MET	C	358	15.804	89.624	49.122	1.00	24.55	O
ATOM	9382	CB	MET	C	358	14.243	86.792	49.374	1.00	23.47	C
ATOM	9383	CG	MET	C	358	15.206	86.803	50.568	1.00	21.83	C
ATOM	9384	SD	MET	C	358	14.784	87.995	51.871	1.00	24.40	S
ATOM	9385	CE	MET	C	358	13.225	87.327	52.507	1.00	20.36	C
ATOM	9386	N	PHE	C	359	15.612	88.612	47.124	1.00	25.21	N
ATOM	9387	CA	PHE	C	359	16.805	89.265	46.618	1.00	25.60	C
ATOM	9388	C	PHE	C	359	16.551	90.772	46.624	1.00	26.21	C
ATOM	9389	O	PHE	C	359	17.364	91.556	47.113	1.00	25.23	O
ATOM	9390	CB	PHE	C	359	17.115	88.838	45.188	1.00	26.12	C
ATOM	9391	CG	PHE	C	359	18.254	89.603	44.581	1.00	26.06	C
ATOM	9392	CD1	PHE	C	359	19.572	89.229	44.831	1.00	25.08	C
ATOM	9393	CD2	PHE	C	359	18.011	90.743	43.817	1.00	25.31	C
ATOM	9394	CE1	PHE	C	359	20.638	89.985	44.330	1.00	27.62	C
ATOM	9395	CE2	PHE	C	359	19.069	91.508	43.311	1.00	27.54	C
ATOM	9396	CZ	PHE	C	359	20.384	91.130	43.567	1.00	26.74	C
ATOM	9397	N	ASP	C	360	15.405	91.160	46.078	1.00	25.96	N
ATOM	9398	CA	ASP	C	360	15.031	92.560	45.998	1.00	28.11	C
ATOM	9399	C	ASP	C	360	15.033	93.250	47.361	1.00	27.95	C



ATOM	9400	O	ASP	C	360	15.579	94.340	47.510	1.00	26.77	O
ATOM	9401	CB	ASP	C	360	13.651	92.699	45.350	1.00	28.63	C
ATOM	9402	CG	ASP	C	360	13.253	94.149	45.152	1.00	31.89	C
ATOM	9403	OD1	ASP	C	360	14.044	94.895	44.532	1.00	31.61	O
ATOM	9404	OD2	ASP	C	360	12.157	94.540	45.614	1.00	31.90	O
ATOM	9405	N	LEU	C	361	14.414	92.616	48.352	1.00	27.64	N
ATOM	9406	CA	LEU	C	361	14.362	93.188	49.687	1.00	26.48	C
ATOM	9407	C	LEU	C	361	15.756	93.220	50.296	1.00	26.44	C
ATOM	9408	O	LEU	C	361	16.190	94.242	50.820	1.00	26.57	O
ATOM	9409	CB	LEU	C	361	13.432	92.376	50.586	1.00	26.34	C
ATOM	9410	CG	LEU	C	361	13.382	92.846	52.045	1.00	27.66	C
ATOM	9411	CD1	LEU	C	361	12.780	94.244	52.110	1.00	25.13	C
ATOM	9412	CD2	LEU	C	361	12.563	91.872	52.879	1.00	25.71	C
ATOM	9413	N	ALA	C	362	16.457	92.096	50.218	1.00	26.13	N
ATOM	9414	CA	ALA	C	362	17.800	92.002	50.773	1.00	27.49	C
ATOM	9415	C	ALA	C	362	18.722	93.039	50.155	1.00	27.96	C
ATOM	9416	O	ALA	C	362	19.463	93.716	50.862	1.00	29.42	O
ATOM	9417	CB	ALA	C	362	18.365	90.605	50.552	1.00	26.32	C
ATOM	9418	N	TYR	C	363	18.681	93.158	48.833	1.00	28.83	N
ATOM	9419	CA	TYR	C	363	19.527	94.120	48.145	1.00	27.85	C
ATOM	9420	C	TYR	C	363	19.252	95.514	48.689	1.00	28.68	C
ATOM	9421	O	TYR	C	363	20.169	96.217	49.114	1.00	29.53	O
ATOM	9422	CB	TYR	C	363	19.252	94.105	46.644	1.00	28.64	C
ATOM	9423	CG	TYR	C	363	20.184	95.008	45.864	1.00	30.85	C
ATOM	9424	CD1	TYR	C	363	21.471	94.590	45.536	1.00	29.91	C
ATOM	9425	CD2	TYR	C	363	19.795	96.299	45.495	1.00	31.85	C
ATOM	9426	CE1	TYR	C	363	22.350	95.428	44.865	1.00	32.93	C
ATOM	9427	CE2	TYR	C	363	20.669	97.151	44.822	1.00	33.40	C
ATOM	9428	CZ	TYR	C	363	21.946	96.706	44.512	1.00	34.39	C
ATOM	9429	OH	TYR	C	363	22.828	97.533	43.851	1.00	37.24	O
ATOM	9430	N	GLY	C	364	17.981	95.901	48.678	1.00	28.87	N
ATOM	9431	CA	GLY	C	364	17.604	97.214	49.165	1.00	30.70	C
ATOM	9432	C	GLY	C	364	17.934	97.416	50.630	1.00	32.60	C
ATOM	9433	O	GLY	C	364	18.315	98.511	51.041	1.00	34.94	O
ATOM	9434	N	TYR	C	365	17.788	96.354	51.415	1.00	32.18	N
ATOM	9435	CA	TYR	C	365	18.057	96.394	52.848	1.00	31.23	C
ATOM	9436	C	TYR	C	365	19.536	96.631	53.109	1.00	31.30	C
ATOM	9437	O	TYR	C	365	19.903	97.344	54.043	1.00	32.04	O
ATOM	9438	CB	TYR	C	365	17.626	95.069	53.478	1.00	31.14	C
ATOM	9439	CG	TYR	C	365	17.859	94.936	54.969	1.00	28.86	C
ATOM	9440	CD1	TYR	C	365	17.171	95.736	55.879	1.00	28.65	C
ATOM	9441	CD2	TYR	C	365	18.705	93.944	55.472	1.00	28.81	C
ATOM	9442	CE1	TYR	C	365	17.311	95.544	57.252	1.00	27.22	C
ATOM	9443	CE2	TYR	C	365	18.851	93.742	56.844	1.00	25.89	C
ATOM	9444	CZ	TYR	C	365	18.147	94.542	57.727	1.00	27.85	C
ATOM	9445	OH	TYR	C	365	18.247	94.316	59.081	1.00	26.98	O
ATOM	9446	N	ALA	C	366	20.379	96.024	52.279	1.00	30.99	N
ATOM	9447	CA	ALA	C	366	21.825	96.160	52.410	1.00	31.49	C
ATOM	9448	C	ALA	C	366	22.295	97.575	52.064	1.00	33.84	C
ATOM	9449	O	ALA	C	366	23.412	97.966	52.412	1.00	32.71	O
ATOM	9450	CB	ALA	C	366	22.526	95.145	51.511	1.00	29.09	C
ATOM	9451	N	GLN	C	367	21.444	98.337	51.378	1.00	34.97	N
ATOM	9452	CA	GLN	C	367	21.792	99.697	50.984	1.00	36.65	C
ATOM	9453	C	GLN	C	367	21.126	100.738	51.870	1.00	36.94	C
ATOM	9454	O	GLN	C	367	21.779	101.668	52.333	1.00	38.44	O
ATOM	9455	CB	GLN	C	367	21.368	99.971	49.536	1.00	37.42	C
ATOM	9456	CG	GLN	C	367	21.704	98.881	48.532	1.00	42.45	C
ATOM	9457	CD	GLN	C	367	23.191	98.645	48.378	1.00	44.52	C
ATOM	9458	OE1	GLN	C	367	23.955	99.573	48.105	1.00	46.92	O
ATOM	9459	NE2	GLN	C	367	23.611	97.392	48.539	1.00	47.01	N
ATOM	9460	N	ASN	C	368	19.824	100.576	52.100	1.00	36.62	N
ATOM	9461	CA	ASN	C	368	19.047	101.531	52.886	1.00	35.67	C
ATOM	9462	C	ASN	C	368	18.386	100.973	54.140	1.00	35.43	C
ATOM	9463	O	ASN	C	368	17.437	101.572	54.655	1.00	35.91	O
ATOM	9464	CB	ASN	C	368	17.962	102.137	52.000	1.00	36.78	C
ATOM	9465	CG	ASN	C	368	18.529	102.830	50.781	1.00	39.96	C
ATOM	9466	OD1	ASN	C	368	17.858	102.946	49.754	1.00	41.18	O
ATOM	9467	ND2	ASN	C	368	19.768	103.309	50.890	1.00	39.91	N
ATOM	9468	N	GLN	C	369	18.879	99.836	54.627	1.00	34.33	N
ATOM	9469	CA	GLN	C	369	18.329	99.196	55.821	1.00	31.78	C
ATOM	9470	C	GLN	C	369	16.804	99.290	55.952	1.00	30.97	C
ATOM	9471	O	GLN	C	369	16.074	98.822	55.080	1.00	32.58	O
ATOM	9472	CB	GLN	C	369	18.994	99.755	57.083	1.00	31.14	C
ATOM	9473	CG	GLN	C	369	20.502	99.537	57.129	1.00	32.29	C
ATOM	9474	CD	GLN	C	369	21.275	100.630	56.409	1.00	34.60	C
ATOM	9475	OE1	GLN	C	369	22.447	100.463	56.074	1.00	33.80	O
ATOM	9476	NE2	GLN	C	369	20.622	101.764	56.185	1.00	35.26	N
ATOM	9477	N	MET	C	370	16.319	99.910	57.024	1.00	29.13	N
ATOM	9478	CA	MET	C	370	14.872	99.988	57.245	1.00	30.22	C
ATOM	9479	C	MET	C	370	14.004	100.585	56.137	1.00	30.96	C



ATOM	9480	O	MET	C	370	12.860	100.168	55.958	1.00	30.90	O
ATOM	9481	CB	MET	C	370	14.570	100.701	58.566	1.00	28.36	C
ATOM	9482	CG	MET	C	370	14.968	99.896	59.808	1.00	28.79	C
ATOM	9483	SD	MET	C	370	14.585	98.108	59.695	1.00	29.65	S
ATOM	9484	CE	MET	C	370	12.800	98.129	59.661	1.00	26.74	C
ATOM	9485	N	SER	C	371	14.530	101.559	55.400	1.00	32.48	N
ATOM	9486	CA	SER	C	371	13.766	102.177	54.320	1.00	31.80	C
ATOM	9487	C	SER	C	371	13.286	101.096	53.354	1.00	30.88	C
ATOM	9488	O	SER	C	371	12.119	101.072	52.964	1.00	30.18	O
ATOM	9489	CB	SER	C	371	14.629	103.195	53.562	1.00	32.78	C
ATOM	9490	OG	SER	C	371	15.101	104.219	54.423	1.00	35.80	O
ATOM	9491	N	ALA	C	372	14.194	100.198	52.983	1.00	31.42	N
ATOM	9492	CA	ALA	C	372	13.869	99.113	52.062	1.00	32.06	C
ATOM	9493	C	ALA	C	372	12.687	98.282	52.546	1.00	32.02	C
ATOM	9494	O	ALA	C	372	11.784	97.967	51.770	1.00	33.74	O
ATOM	9495	CB	ALA	C	372	15.078	98.224	51.868	1.00	32.56	C
ATOM	9496	N	TYR	C	373	12.683	97.935	53.830	1.00	31.49	N
ATOM	9497	CA	TYR	C	373	11.598	97.125	54.371	1.00	30.23	C
ATOM	9498	C	TYR	C	373	10.279	97.884	54.445	1.00	29.90	C
ATOM	9499	O	TYR	C	373	9.214	97.325	54.178	1.00	30.67	O
ATOM	9500	CB	TYR	C	373	11.946	96.594	55.766	1.00	28.73	C
ATOM	9501	CG	TYR	C	373	10.916	95.602	56.237	1.00	28.99	C
ATOM	9502	CD1	TYR	C	373	10.882	94.311	55.710	1.00	27.33	C
ATOM	9503	CD2	TYR	C	373	9.890	95.991	57.099	1.00	28.06	C
ATOM	9504	CE1	TYR	C	373	9.849	93.437	56.015	1.00	26.83	C
ATOM	9505	CE2	TYR	C	373	8.847	95.124	57.409	1.00	27.48	C
ATOM	9506	CZ	TYR	C	373	8.833	93.850	56.858	1.00	28.22	C
ATOM	9507	OH	TYR	C	373	7.782	93.003	57.116	1.00	30.13	O
ATOM	9508	N	VAL	C	374	10.351	99.157	54.815	1.00	31.25	N
ATOM	9509	CA	VAL	C	374	9.160	99.986	54.923	1.00	29.72	C
ATOM	9510	C	VAL	C	374	8.418	100.019	53.592	1.00	30.26	C
ATOM	9511	O	VAL	C	374	7.185	100.040	53.557	1.00	31.17	O
ATOM	9512	CB	VAL	C	374	9.534	101.412	55.360	1.00	30.61	C
ATOM	9513	CG1	VAL	C	374	8.286	102.272	55.476	1.00	30.57	C
ATOM	9514	CG2	VAL	C	374	10.259	101.354	56.696	1.00	30.18	C
ATOM	9515	N	GLU	C	375	9.165	100.008	52.493	1.00	30.63	N
ATOM	9516	CA	GLU	C	375	8.547	100.013	51.171	1.00	31.62	C
ATOM	9517	C	GLU	C	375	7.678	98.780	50.996	1.00	30.44	C
ATOM	9518	O	GLU	C	375	6.562	98.864	50.482	1.00	29.87	O
ATOM	9519	CB	GLU	C	375	9.610	100.045	50.074	1.00	34.24	C
ATOM	9520	CG	GLU	C	375	10.205	101.414	49.838	1.00	37.48	C
ATOM	9521	CD	GLU	C	375	11.247	101.406	48.742	1.00	42.06	C
ATOM	9522	OE1	GLU	C	375	10.987	100.800	47.678	1.00	45.56	O
ATOM	9523	OE2	GLU	C	375	12.322	102.014	48.938	1.00	44.00	O
ATOM	9524	N	LEU	C	376	8.189	97.630	51.432	1.00	31.25	N
ATOM	9525	CA	LEU	C	376	7.432	96.384	51.322	1.00	29.11	C
ATOM	9526	C	LEU	C	376	6.152	96.463	52.151	1.00	29.20	C
ATOM	9527	O	LEU	C	376	5.055	96.205	51.648	1.00	29.98	O
ATOM	9528	CB	LEU	C	376	8.280	95.196	51.788	1.00	27.21	C
ATOM	9529	CG	LEU	C	376	7.582	93.830	51.883	1.00	27.40	C
ATOM	9530	CD1	LEU	C	376	6.928	93.472	50.557	1.00	24.13	C
ATOM	9531	CD2	LEU	C	376	8.600	92.770	52.280	1.00	25.08	C
ATOM	9532	N	GLN	C	377	6.291	96.840	53.418	1.00	29.51	N
ATOM	9533	CA	GLN	C	377	5.135	96.935	54.303	1.00	29.82	C
ATOM	9534	C	GLN	C	377	4.043	97.816	53.708	1.00	30.28	C
ATOM	9535	O	GLN	C	377	2.861	97.459	53.733	1.00	30.64	O
ATOM	9536	CB	GLN	C	377	5.553	97.485	55.669	1.00	31.05	C
ATOM	9537	CG	GLN	C	377	4.511	97.276	56.750	1.00	31.13	C
ATOM	9538	CD	GLN	C	377	4.937	97.836	58.090	1.00	33.59	C
ATOM	9539	OE1	GLN	C	377	4.525	97.340	59.139	1.00	36.65	O
ATOM	9540	NE2	GLN	C	377	5.755	98.883	58.066	1.00	34.66	N
ATOM	9541	N	GLU	C	378	4.437	98.968	53.173	1.00	30.37	N
ATOM	9542	CA	GLU	C	378	3.476	99.883	52.573	1.00	31.00	C
ATOM	9543	C	GLU	C	378	2.761	99.213	51.407	1.00	30.10	C
ATOM	9544	O	GLU	C	378	1.546	99.356	51.251	1.00	30.17	O
ATOM	9545	CB	GLU	C	378	4.177	101.162	52.114	1.00	34.38	C
ATOM	9546	CG	GLU	C	378	4.619	102.061	53.272	1.00	39.43	C
ATOM	9547	CD	GLU	C	378	3.452	102.505	54.150	1.00	42.02	C
ATOM	9548	OE1	GLU	C	378	2.448	103.011	53.595	1.00	43.67	O
ATOM	9549	OE2	GLU	C	378	3.540	102.356	55.393	1.00	44.15	O
ATOM	9550	N	ARG	C	379	3.510	98.483	50.585	1.00	30.61	N
ATOM	9551	CA	ARG	C	379	2.904	97.773	49.464	1.00	30.28	C
ATOM	9552	C	ARG	C	379	1.890	96.765	50.009	1.00	30.36	C
ATOM	9553	O	ARG	C	379	0.843	96.527	49.401	1.00	30.69	O
ATOM	9554	CB	ARG	C	379	3.969	97.047	48.643	1.00	31.53	C
ATOM	9555	CG	ARG	C	379	4.948	97.976	47.945	1.00	34.73	C
ATOM	9556	CD	ARG	C	379	5.517	97.327	46.699	1.00	35.56	C
ATOM	9557	NE	ARG	C	379	6.438	96.243	47.018	1.00	40.39	N
ATOM	9558	CZ	ARG	C	379	7.717	96.423	47.330	1.00	41.93	C
ATOM	9559	NH1	ARG	C	379	8.227	97.648	47.359	1.00	42.75	N



ATOM	9560	NH2	ARG	C	379	8.484	95.379	47.622	1.00	41.66	N
ATOM	9561	N	GLU	C	380	2.200	96.181	51.165	1.00	29.01	N
ATOM	9562	CA	GLU	C	380	1.300	95.213	51.785	1.00	28.64	C
ATOM	9563	C	GLU	C	380	0.004	95.871	52.242	1.00	28.48	C
ATOM	9564	O	GLU	C	380	-1.081	95.345	52.002	1.00	26.64	O
ATOM	9565	CB	GLU	C	380	1.982	94.530	52.977	1.00	29.83	C
ATOM	9566	CG	GLU	C	380	3.016	93.480	52.587	1.00	29.18	C
ATOM	9567	CD	GLU	C	380	3.632	92.795	53.792	1.00	31.16	C
ATOM	9568	OE1	GLU	C	380	4.454	93.433	54.480	1.00	33.40	O
ATOM	9569	OE2	GLU	C	380	3.287	91.625	54.058	1.00	30.35	O
ATOM	9570	N	PHE	C	381	0.124	97.010	52.922	1.00	30.10	N
ATOM	9571	CA	PHE	C	381	-1.046	97.744	53.394	1.00	30.85	C
ATOM	9572	C	PHE	C	381	-1.894	98.095	52.186	1.00	30.50	C
ATOM	9573	O	PHE	C	381	-3.116	97.952	52.202	1.00	30.70	O
ATOM	9574	CB	PHE	C	381	-0.635	99.044	54.100	1.00	33.07	C
ATOM	9575	CG	PHE	C	381	-0.077	98.844	55.481	1.00	33.20	C
ATOM	9576	CD1	PHE	C	381	-0.789	98.126	56.434	1.00	33.97	C
ATOM	9577	CD2	PHE	C	381	1.146	99.403	55.837	1.00	34.63	C
ATOM	9578	CE1	PHE	C	381	-0.294	97.966	57.727	1.00	35.57	C
ATOM	9579	CE2	PHE	C	381	1.653	99.250	57.129	1.00	35.75	C
ATOM	9580	CZ	PHE	C	381	0.932	98.530	58.075	1.00	35.56	C
ATOM	9581	N	ALA	C	382	-1.232	98.555	51.133	1.00	29.34	N
ATOM	9582	CA	ALA	C	382	-1.938	98.924	49.922	1.00	32.03	C
ATOM	9583	C	ALA	C	382	-2.696	97.713	49.385	1.00	33.37	C
ATOM	9584	O	ALA	C	382	-3.880	97.807	49.058	1.00	35.49	O
ATOM	9585	CB	ALA	C	382	-0.951	99.441	48.877	1.00	30.76	C
ATOM	9586	N	ALA	C	383	-2.020	96.569	49.321	1.00	32.43	N
ATOM	9587	CA	ALA	C	383	-2.637	95.352	48.801	1.00	32.11	C
ATOM	9588	C	ALA	C	383	-3.888	94.915	49.557	1.00	32.59	C
ATOM	9589	O	ALA	C	383	-4.641	94.066	49.078	1.00	31.67	O
ATOM	9590	CB	ALA	C	383	-1.617	94.220	48.783	1.00	31.95	C
ATOM	9591	N	GLU	C	384	-4.129	95.497	50.727	1.00	34.18	N
ATOM	9592	CA	GLU	C	384	-5.304	95.116	51.508	1.00	36.31	C
ATOM	9593	C	GLU	C	384	-6.628	95.395	50.800	1.00	37.29	C
ATOM	9594	O	GLU	C	384	-7.619	94.699	51.034	1.00	38.37	O
ATOM	9595	CB	GLU	C	384	-5.287	95.810	52.869	1.00	37.07	C
ATOM	9596	CG	GLU	C	384	-4.006	95.574	53.652	1.00	40.99	C
ATOM	9597	CD	GLU	C	384	-4.055	96.165	55.046	1.00	41.46	C
ATOM	9598	OE1	GLU	C	384	-4.534	97.308	55.185	1.00	43.96	O
ATOM	9599	OE2	GLU	C	384	-3.606	95.496	55.999	1.00	41.88	O
ATOM	9600	N	GLU	C	385	-6.660	96.405	49.935	1.00	39.10	N
ATOM	9601	CA	GLU	C	385	-7.897	96.710	49.222	1.00	41.05	C
ATOM	9602	C	GLU	C	385	-8.177	95.626	48.178	1.00	40.33	C
ATOM	9603	O	GLU	C	385	-9.327	95.416	47.783	1.00	41.47	O
ATOM	9604	CB	GLU	C	385	-7.822	98.099	48.571	1.00	44.04	C
ATOM	9605	CG	GLU	C	385	-6.655	98.294	47.619	1.00	50.63	C
ATOM	9606	CD	GLU	C	385	-6.478	99.747	47.197	1.00	54.20	C
ATOM	9607	OE1	GLU	C	385	-7.396	100.301	46.544	1.00	57.58	O
ATOM	9608	OE2	GLU	C	385	-5.420	100.336	47.523	1.00	55.35	O
ATOM	9609	N	ARG	C	386	-7.124	94.931	47.751	1.00	38.85	N
ATOM	9610	CA	ARG	C	386	-7.247	93.850	46.773	1.00	36.67	C
ATOM	9611	C	ARG	C	386	-7.614	92.536	47.460	1.00	35.72	C
ATOM	9612	O	ARG	C	386	-7.899	91.540	46.793	1.00	35.66	O
ATOM	9613	CB	ARG	C	386	-5.934	93.649	46.001	1.00	36.90	C
ATOM	9614	CG	ARG	C	386	-5.654	94.669	44.912	1.00	36.88	C
ATOM	9615	CD	ARG	C	386	-4.449	94.243	44.075	1.00	38.86	C
ATOM	9616	NE	ARG	C	386	-3.179	94.390	44.784	1.00	38.58	N
ATOM	9617	CZ	ARG	C	386	-2.029	93.849	44.384	1.00	39.89	C
ATOM	9618	NH1	ARG	C	386	-1.980	93.115	43.280	1.00	40.53	N
ATOM	9619	NH2	ARG	C	386	-0.920	94.049	45.084	1.00	38.94	N
ATOM	9620	N	GLY	C	387	-7.587	92.528	48.790	1.00	34.45	N
ATOM	9621	CA	GLY	C	387	-7.930	91.318	49.520	1.00	32.88	C
ATOM	9622	C	GLY	C	387	-6.821	90.748	50.389	1.00	31.86	C
ATOM	9623	O	GLY	C	387	-7.057	89.830	51.178	1.00	32.14	O
ATOM	9624	N	TYR	C	388	-5.613	91.285	50.246	1.00	31.42	N
ATOM	9625	CA	TYR	C	388	-4.466	90.831	51.029	1.00	30.10	C
ATOM	9626	C	TYR	C	388	-4.794	90.925	52.516	1.00	31.21	C
ATOM	9627	O	TYR	C	388	-5.491	91.853	52.945	1.00	33.24	O
ATOM	9628	CB	TYR	C	388	-3.249	91.699	50.723	1.00	27.80	C
ATOM	9629	CG	TYR	C	388	-1.953	91.174	51.297	1.00	27.77	C
ATOM	9630	CD1	TYR	C	388	-1.445	89.934	50.903	1.00	26.21	C
ATOM	9631	CD2	TYR	C	388	-1.222	91.925	52.215	1.00	26.55	C
ATOM	9632	CE1	TYR	C	388	-0.241	89.453	51.405	1.00	23.70	C
ATOM	9633	CE2	TYR	C	388	-0.017	91.454	52.729	1.00	27.28	C
ATOM	9634	CZ	TYR	C	388	0.468	90.217	52.318	1.00	26.50	C
ATOM	9635	OH	TYR	C	388	1.657	89.751	52.824	1.00	23.47	O
ATOM	9636	N	THR	C	389	-4.292	89.973	53.299	1.00	29.01	N
ATOM	9637	CA	THR	C	389	-4.546	89.965	54.736	1.00	28.75	C
ATOM	9638	C	THR	C	389	-3.326	89.654	55.594	1.00	28.77	C
ATOM	9639	O	THR	C	389	-3.373	89.824	56.807	1.00	29.93	O



ATOM	9640	CB	THR	C	389	-5.618	88.933	55.110	1.00	29.66	C
ATOM	9641	OG1	THR	C	389	-5.211	87.641	54.635	1.00	29.47	O
ATOM	9642	CG2	THR	C	389	-6.979	89.316	54.508	1.00	29.05	C
ATOM	9643	N	ALA	C	390	-2.237	89.203	54.980	1.00	28.02	N
ATOM	9644	CA	ALA	C	390	-1.043	88.844	55.742	1.00	27.50	C
ATOM	9645	C	ALA	C	390	-0.330	90.011	56.428	1.00	27.48	C
ATOM	9646	O	ALA	C	390	0.615	89.797	57.186	1.00	26.29	O
ATOM	9647	CB	ALA	C	390	-0.063	88.084	54.851	1.00	25.93	C
ATOM	9648	N	THR	C	391	-0.772	91.239	56.165	1.00	27.64	N
ATOM	9649	CA	THR	C	391	-0.155	92.409	56.788	1.00	27.02	C
ATOM	9650	C	THR	C	391	-0.239	92.223	58.300	1.00	27.04	C
ATOM	9651	O	THR	C	391	0.691	92.551	59.034	1.00	27.20	O
ATOM	9652	CB	THR	C	391	-0.888	93.708	56.413	1.00	27.85	C
ATOM	9653	OG1	THR	C	391	-1.075	93.761	54.996	1.00	26.89	O
ATOM	9654	CG2	THR	C	391	-0.067	94.909	56.832	1.00	28.40	C
ATOM	9655	N	LYS	C	392	-1.371	91.696	58.752	1.00	26.82	N
ATOM	9656	CA	LYS	C	392	-1.583	91.420	60.167	1.00	27.83	C
ATOM	9657	C	LYS	C	392	-1.239	89.940	60.304	1.00	27.13	C
ATOM	9658	O	LYS	C	392	-2.113	89.075	60.320	1.00	25.85	O
ATOM	9659	CB	LYS	C	392	-3.041	91.687	60.528	1.00	30.66	C
ATOM	9660	CG	LYS	C	392	-3.556	92.982	59.911	1.00	34.48	C
ATOM	9661	CD	LYS	C	392	-4.619	93.655	60.749	1.00	38.12	C
ATOM	9662	CE	LYS	C	392	-5.882	92.827	60.868	1.00	39.70	C
ATOM	9663	NZ	LYS	C	392	-6.862	93.506	61.772	1.00	42.69	N
ATOM	9664	N	HIS	C	393	0.059	89.671	60.381	1.00	26.61	N
ATOM	9665	CA	HIS	C	393	0.577	88.316	60.453	1.00	26.09	C
ATOM	9666	C	HIS	C	393	0.124	87.444	61.615	1.00	25.70	C
ATOM	9667	O	HIS	C	393	0.047	86.222	61.471	1.00	26.19	O
ATOM	9668	CB	HIS	C	393	2.107	88.350	60.408	1.00	26.55	C
ATOM	9669	CG	HIS	C	393	2.722	89.322	61.367	1.00	26.62	C
ATOM	9670	ND1	HIS	C	393	3.347	90.479	60.955	1.00	27.75	N
ATOM	9671	CD2	HIS	C	393	2.809	89.307	62.719	1.00	26.29	C
ATOM	9672	CE1	HIS	C	393	3.793	91.135	62.012	1.00	28.50	C
ATOM	9673	NE2	HIS	C	393	3.479	90.445	63.095	1.00	27.86	N
ATOM	9674	N	GLN	C	394	-0.183	88.052	62.757	1.00	24.82	N
ATOM	9675	CA	GLN	C	394	-0.593	87.275	63.919	1.00	24.35	C
ATOM	9676	C	GLN	C	394	-1.866	86.491	63.644	1.00	25.87	C
ATOM	9677	O	GLN	C	394	-1.900	85.264	63.804	1.00	26.12	O
ATOM	9678	CB	GLN	C	394	-0.784	88.188	65.131	1.00	23.49	C
ATOM	9679	CG	GLN	C	394	0.406	89.088	65.396	1.00	24.44	C
ATOM	9680	CD	GLN	C	394	1.609	88.357	65.973	1.00	26.50	C
ATOM	9681	OE1	GLN	C	394	1.867	87.197	65.654	1.00	26.00	O
ATOM	9682	NE2	GLN	C	394	2.365	89.049	66.817	1.00	27.40	N
ATOM	9683	N	ARG	C	395	-2.917	87.188	63.231	1.00	25.12	N
ATOM	9684	CA	ARG	C	395	-4.177	86.515	62.940	1.00	24.45	C
ATOM	9685	C	ARG	C	395	-4.030	85.632	61.708	1.00	23.62	C
ATOM	9686	O	ARG	C	395	-4.666	84.582	61.609	1.00	24.64	O
ATOM	9687	CB	ARG	C	395	-5.284	87.540	62.704	1.00	24.62	C
ATOM	9688	CG	ARG	C	395	-4.904	88.619	61.710	1.00	25.81	C
ATOM	9689	CD	ARG	C	395	-6.121	89.049	60.924	1.00	26.82	C
ATOM	9690	NE	ARG	C	395	-6.670	87.952	60.128	1.00	26.42	N
ATOM	9691	CZ	ARG	C	395	-6.060	87.407	59.077	1.00	25.62	C
ATOM	9692	NH1	ARG	C	395	-4.871	87.851	58.686	1.00	21.49	N
ATOM	9693	NH2	ARG	C	395	-6.648	86.424	58.404	1.00	23.72	N
ATOM	9694	N	GLU	C	396	-3.189	86.070	60.773	1.00	22.23	N
ATOM	9695	CA	GLU	C	396	-2.941	85.339	59.531	1.00	23.69	C
ATOM	9696	C	GLU	C	396	-2.404	83.934	59.812	1.00	25.34	C
ATOM	9697	O	GLU	C	396	-2.657	82.995	59.053	1.00	24.43	O
ATOM	9698	CB	GLU	C	396	-1.924	86.104	58.672	1.00	23.18	C
ATOM	9699	CG	GLU	C	396	-1.643	85.512	57.283	1.00	24.98	C
ATOM	9700	CD	GLU	C	396	-2.811	85.664	56.314	1.00	25.98	C
ATOM	9701	OE1	GLU	C	396	-3.625	86.597	56.503	1.00	24.50	O
ATOM	9702	OE2	GLU	C	396	-2.906	84.863	55.355	1.00	24.67	O
ATOM	9703	N	VAL	C	397	-1.667	83.788	60.908	1.00	23.58	N
ATOM	9704	CA	VAL	C	397	-1.092	82.497	61.228	1.00	24.30	C
ATOM	9705	C	VAL	C	397	-1.891	81.734	62.292	1.00	23.55	C
ATOM	9706	O	VAL	C	397	-1.459	80.689	62.781	1.00	22.31	O
ATOM	9707	CB	VAL	C	397	0.401	82.670	61.633	1.00	24.93	C
ATOM	9708	CG1	VAL	C	397	0.523	83.283	63.009	1.00	24.46	C
ATOM	9709	CG2	VAL	C	397	1.103	81.352	61.566	1.00	30.76	C
ATOM	9710	N	GLY	C	398	-3.061	82.260	62.644	1.00	22.56	N
ATOM	9711	CA	GLY	C	398	-3.908	81.582	63.609	1.00	22.16	C
ATOM	9712	C	GLY	C	398	-3.943	82.021	65.063	1.00	22.00	C
ATOM	9713	O	GLY	C	398	-4.597	81.366	65.873	1.00	22.90	O
ATOM	9714	N	ALA	C	399	-3.257	83.104	65.411	1.00	22.30	N
ATOM	9715	CA	ALA	C	399	-3.263	83.583	66.794	1.00	22.35	C
ATOM	9716	C	ALA	C	399	-4.701	83.717	67.303	1.00	22.76	C
ATOM	9717	O	ALA	C	399	-5.019	83.309	68.426	1.00	22.97	O
ATOM	9718	CB	ALA	C	399	-2.544	84.927	66.891	1.00	22.00	C
ATOM	9719	N	GLY	C	400	-5.571	84.284	66.473	1.00	21.81	N



ATOM	9720	CA	GLY	C	400	-6.957	84.439	66.878	1.00	21.30	C
ATOM	9721	C	GLY	C	400	-7.623	83.090	67.068	1.00	21.98	C
ATOM	9722	O	GLY	C	400	-8.458	82.910	67.956	1.00	22.88	O
ATOM	9723	N	TYR	C	401	-7.248	82.127	66.233	1.00	20.58	N
ATOM	9724	CA	TYR	C	401	-7.833	80.797	66.310	1.00	20.76	C
ATOM	9725	C	TYR	C	401	-7.453	80.078	67.604	1.00	21.16	C
ATOM	9726	O	TYR	C	401	-8.312	79.489	68.266	1.00	21.29	O
ATOM	9727	CB	TYR	C	401	-7.405	79.958	65.098	1.00	20.58	C
ATOM	9728	CG	TYR	C	401	-8.004	78.571	65.071	1.00	20.04	C
ATOM	9729	CD1	TYR	C	401	-9.376	78.378	64.869	1.00	20.59	C
ATOM	9730	CD2	TYR	C	401	-7.205	77.447	65.255	1.00	19.16	C
ATOM	9731	CE1	TYR	C	401	-9.928	77.088	64.848	1.00	18.65	C
ATOM	9732	CE2	TYR	C	401	-7.749	76.158	65.239	1.00	18.49	C
ATOM	9733	CZ	TYR	C	401	-9.101	75.985	65.035	1.00	15.79	C
ATOM	9734	OH	TYR	C	401	-9.616	74.709	65.012	1.00	17.83	O
ATOM	9735	N	PHE	C	402	-6.174	80.123	67.970	1.00	19.86	N
ATOM	9736	CA	PHE	C	402	-5.749	79.458	69.190	1.00	20.48	C
ATOM	9737	C	PHE	C	402	-6.252	80.178	70.438	1.00	22.57	C
ATOM	9738	O	PHE	C	402	-6.390	79.561	71.502	1.00	21.63	O
ATOM	9739	CB	PHE	C	402	-4.222	79.257	69.203	1.00	20.29	C
ATOM	9740	CG	PHE	C	402	-3.765	78.121	68.303	1.00	18.69	C
ATOM	9741	CD1	PHE	C	402	-3.633	78.306	66.930	1.00	15.65	C
ATOM	9742	CD2	PHE	C	402	-3.584	76.838	68.819	1.00	17.28	C
ATOM	9743	CE1	PHE	C	402	-3.335	77.233	66.082	1.00	17.11	C
ATOM	9744	CE2	PHE	C	402	-3.289	75.759	67.979	1.00	18.24	C
ATOM	9745	CZ	PHE	C	402	-3.166	75.958	66.610	1.00	15.93	C
ATOM	9746	N	ASP	C	403	-6.549	81.471	70.313	1.00	24.38	N
ATOM	9747	CA	ASP	C	403	-7.106	82.209	71.448	1.00	26.11	C
ATOM	9748	C	ASP	C	403	-8.501	81.645	71.700	1.00	26.54	C
ATOM	9749	O	ASP	C	403	-8.932	81.488	72.846	1.00	27.85	O
ATOM	9750	CB	ASP	C	403	-7.222	83.703	71.148	1.00	29.14	C
ATOM	9751	CG	ASP	C	403	-5.940	84.452	71.429	1.00	32.69	C
ATOM	9752	OD1	ASP	C	403	-5.142	83.969	72.261	1.00	34.77	O
ATOM	9753	OD2	ASP	C	403	-5.735	85.531	70.835	1.00	36.64	O
ATOM	9754	N	ARG	C	404	-9.200	81.340	70.610	1.00	26.48	N
ATOM	9755	CA	ARG	C	404	-10.541	80.780	70.684	1.00	26.58	C
ATOM	9756	C	ARG	C	404	-10.482	79.421	71.390	1.00	26.64	C
ATOM	9757	O	ARG	C	404	-11.312	79.121	72.254	1.00	25.39	O
ATOM	9758	CB	ARG	C	404	-11.114	80.629	69.273	1.00	26.90	C
ATOM	9759	CG	ARG	C	404	-12.576	80.243	69.233	1.00	31.93	C
ATOM	9760	CD	ARG	C	404	-13.414	81.230	70.019	1.00	36.50	C
ATOM	9761	NE	ARG	C	404	-14.817	80.833	70.063	1.00	41.33	N
ATOM	9762	CZ	ARG	C	404	-15.647	80.916	69.032	1.00	41.85	C
ATOM	9763	NH1	ARG	C	404	-15.215	81.389	67.871	1.00	42.66	N
ATOM	9764	NH2	ARG	C	404	-16.905	80.521	69.164	1.00	44.28	N
ATOM	9765	N	ILE	C	405	-9.500	78.601	71.012	1.00	25.42	N
ATOM	9766	CA	ILE	C	405	-9.318	77.286	71.627	1.00	23.41	C
ATOM	9767	C	ILE	C	405	-9.031	77.500	73.113	1.00	22.98	C
ATOM	9768	O	ILE	C	405	-9.621	76.848	73.975	1.00	23.67	O
ATOM	9769	CB	ILE	C	405	-8.117	76.515	70.996	1.00	22.40	C
ATOM	9770	CG1	ILE	C	405	-8.444	76.115	69.552	1.00	21.43	C
ATOM	9771	CG2	ILE	C	405	-7.784	75.280	71.835	1.00	22.39	C
ATOM	9772	CD1	ILE	C	405	-7.345	75.328	68.856	1.00	20.19	C
ATOM	9773	N	ALA	C	406	-8.126	78.430	73.400	1.00	22.02	N
ATOM	9774	CA	ALA	C	406	-7.750	78.742	74.775	1.00	22.67	C
ATOM	9775	C	ALA	C	406	-8.943	79.168	75.628	1.00	23.20	C
ATOM	9776	O	ALA	C	406	-9.088	78.712	76.768	1.00	22.91	O
ATOM	9777	CB	ALA	C	406	-6.686	79.834	74.789	1.00	19.99	C
ATOM	9778	N	THR	C	407	-9.800	80.033	75.089	1.00	23.02	N
ATOM	9779	CA	THR	C	407	-10.953	80.491	75.858	1.00	24.51	C
ATOM	9780	C	THR	C	407	-12.047	79.429	75.941	1.00	24.74	C
ATOM	9781	O	THR	C	407	-12.907	79.477	76.823	1.00	26.25	O
ATOM	9782	CB	THR	C	407	-11.532	81.813	75.290	1.00	24.60	C
ATOM	9783	OG1	THR	C	407	-11.953	81.625	73.936	1.00	27.64	O
ATOM	9784	CG2	THR	C	407	-10.480	82.906	75.338	1.00	23.91	C
ATOM	9785	N	THR	C	408	-12.019	78.465	75.028	1.00	24.45	N
ATOM	9786	CA	THR	C	408	-13.005	77.391	75.059	1.00	24.02	C
ATOM	9787	C	THR	C	408	-12.621	76.461	76.215	1.00	24.78	C
ATOM	9788	O	THR	C	408	-13.485	75.975	76.943	1.00	24.48	O
ATOM	9789	CB	THR	C	408	-13.027	76.596	73.728	1.00	23.26	C
ATOM	9790	OG1	THR	C	408	-13.374	77.474	72.652	1.00	25.35	O
ATOM	9791	CG2	THR	C	408	-14.042	75.476	73.787	1.00	19.79	C
ATOM	9792	N	VAL	C	409	-11.320	76.231	76.385	1.00	24.71	N
ATOM	9793	CA	VAL	C	409	-10.818	75.382	77.462	1.00	26.07	C
ATOM	9794	C	VAL	C	409	-10.963	76.091	78.812	1.00	29.22	C
ATOM	9795	O	VAL	C	409	-11.324	75.466	79.809	1.00	30.59	O
ATOM	9796	CB	VAL	C	409	-9.323	75.012	77.238	1.00	25.80	C
ATOM	9797	CG1	VAL	C	409	-8.726	74.432	78.511	1.00	24.74	C
ATOM	9798	CG2	VAL	C	409	-9.196	74.004	76.101	1.00	23.13	C
ATOM	9799	N	ASP	C	410	-10.674	77.392	78.838	1.00	30.76	N



ATOM	9800	CA	ASP	C	410	-10.777	78.193	80.058	1.00	33.18	C
ATOM	9801	C	ASP	C	410	-11.098	79.647	79.722	1.00	33.93	C
ATOM	9802	O	ASP	C	410	-10.214	80.414	79.348	1.00	34.26	O
ATOM	9803	CB	ASP	C	410	-9.470	78.131	80.854	1.00	35.31	C
ATOM	9804	CG	ASP	C	410	-9.440	79.123	82.011	1.00	37.55	C
ATOM	9805	OD1	ASP	C	410	-10.526	79.498	82.506	1.00	40.14	O
ATOM	9806	OD2	ASP	C	410	-8.334	79.521	82.435	1.00	38.63	O
ATOM	9807	N	PRO	C	411	-12.373	80.044	79.864	1.00	34.93	N
ATOM	9808	CA	PRO	C	411	-12.842	81.409	79.575	1.00	36.20	C
ATOM	9809	C	PRO	C	411	-12.111	82.505	80.346	1.00	37.92	C
ATOM	9810	O	PRO	C	411	-11.953	83.628	79.852	1.00	37.74	O
ATOM	9811	CB	PRO	C	411	-14.323	81.358	79.947	1.00	34.96	C
ATOM	9812	CG	PRO	C	411	-14.680	79.922	79.736	1.00	36.11	C
ATOM	9813	CD	PRO	C	411	-13.490	79.188	80.295	1.00	34.14	C
ATOM	9814	N	ASN	C	412	-11.666	82.168	81.555	1.00	38.87	N
ATOM	9815	CA	ASN	C	412	-10.972	83.116	82.419	1.00	39.22	C
ATOM	9816	C	ASN	C	412	-9.452	83.109	82.248	1.00	39.93	C
ATOM	9817	O	ASN	C	412	-8.726	83.659	83.079	1.00	40.22	O
ATOM	9818	CB	ASN	C	412	-11.327	82.832	83.882	1.00	40.08	C
ATOM	9819	CG	ASN	C	412	-12.823	82.668	84.098	1.00	42.06	C
ATOM	9820	OD1	ASN	C	412	-13.619	83.523	83.708	1.00	43.52	O
ATOM	9821	ND2	ASN	C	412	-13.212	81.563	84.722	1.00	44.00	N
ATOM	9822	N	SER	C	413	-8.969	82.489	81.175	1.00	39.35	N
ATOM	9823	CA	SER	C	413	-7.533	82.438	80.914	1.00	38.76	C
ATOM	9824	C	SER	C	413	-6.946	83.839	80.827	1.00	40.01	C
ATOM	9825	O	SER	C	413	-7.445	84.683	80.079	1.00	41.40	O
ATOM	9826	CB	SER	C	413	-7.248	81.712	79.602	1.00	36.87	C
ATOM	9827	OG	SER	C	413	-5.921	81.967	79.178	1.00	34.20	O
ATOM	9828	N	SER	C	414	-5.882	84.082	81.585	1.00	39.75	N
ATOM	9829	CA	SER	C	414	-5.236	85.388	81.576	1.00	41.19	C
ATOM	9830	C	SER	C	414	-4.013	85.408	80.657	1.00	41.78	C
ATOM	9831	O	SER	C	414	-3.166	86.300	80.756	1.00	42.24	O
ATOM	9832	CB	SER	C	414	-4.829	85.784	83.002	1.00	40.44	C
ATOM	9833	OG	SER	C	414	-4.024	84.790	83.614	1.00	41.70	O
ATOM	9834	N	THR	C	415	-3.933	84.439	79.747	1.00	41.65	N
ATOM	9835	CA	THR	C	415	-2.788	84.356	78.849	1.00	40.38	C
ATOM	9836	C	THR	C	415	-3.121	84.277	77.364	1.00	40.72	C
ATOM	9837	O	THR	C	415	-2.441	83.575	76.613	1.00	39.68	O
ATOM	9838	CB	THR	C	415	-1.900	83.145	79.210	1.00	41.06	C
ATOM	9839	OG1	THR	C	415	-2.671	81.939	79.109	1.00	39.28	O
ATOM	9840	CG2	THR	C	415	-1.367	83.284	80.632	1.00	40.59	C
ATOM	9841	N	THR	C	416	-4.161	84.988	76.937	1.00	40.39	N
ATOM	9842	CA	THR	C	416	-4.533	84.996	75.526	1.00	40.09	C
ATOM	9843	C	THR	C	416	-3.495	85.833	74.770	1.00	39.65	C
ATOM	9844	O	THR	C	416	-2.779	86.623	75.385	1.00	39.82	O
ATOM	9845	CB	THR	C	416	-5.954	85.567	75.326	1.00	40.70	C
ATOM	9846	OG1	THR	C	416	-6.077	86.820	76.015	1.00	40.55	O
ATOM	9847	CG2	THR	C	416	-6.991	84.582	75.859	1.00	39.36	C
ATOM	9848	N	ALA	C	417	-3.420	85.667	73.449	1.00	39.57	N
ATOM	9849	CA	ALA	C	417	-2.423	86.359	72.621	1.00	39.27	C
ATOM	9850	C	ALA	C	417	-2.765	87.701	71.959	1.00	40.24	C
ATOM	9851	O	ALA	C	417	-1.998	88.660	72.075	1.00	39.78	O
ATOM	9852	CB	ALA	C	417	-1.909	85.395	71.548	1.00	38.49	C
ATOM	9853	N	LEU	C	418	-3.884	87.774	71.244	1.00	40.30	N
ATOM	9854	CA	LEU	C	418	-4.244	89.019	70.563	1.00	41.18	C
ATOM	9855	C	LEU	C	418	-4.505	90.234	71.462	1.00	41.78	C
ATOM	9856	O	LEU	C	418	-4.102	91.352	71.128	1.00	40.97	O
ATOM	9857	CB	LEU	C	418	-5.447	88.795	69.639	1.00	40.34	C
ATOM	9858	CG	LEU	C	418	-5.167	87.928	68.409	1.00	41.76	C
ATOM	9859	CD1	LEU	C	418	-6.406	87.898	67.525	1.00	42.65	C
ATOM	9860	CD2	LEU	C	418	-3.975	88.483	67.634	1.00	40.19	C
ATOM	9861	N	THR	C	419	-5.176	90.026	72.592	1.00	42.16	N
ATOM	9862	CA	THR	C	419	-5.461	91.129	73.504	1.00	41.82	C
ATOM	9863	C	THR	C	419	-4.166	91.719	74.063	1.00	42.64	C
ATOM	9864	O	THR	C	419	-3.412	91.042	74.766	1.00	43.09	O
ATOM	9865	CB	THR	C	419	-6.355	90.672	74.676	1.00	41.73	C
ATOM	9866	OG1	THR	C	419	-7.606	90.196	74.161	1.00	40.20	O
ATOM	9867	CG2	THR	C	419	-6.619	91.834	75.633	1.00	40.36	C
ATOM	9868	N	GLY	C	420	-3.913	92.985	73.741	1.00	42.29	N
ATOM	9869	CA	GLY	C	420	-2.709	93.644	74.212	1.00	42.20	C
ATOM	9870	C	GLY	C	420	-1.535	93.488	73.258	1.00	43.02	C
ATOM	9871	O	GLY	C	420	-0.390	93.794	73.612	1.00	41.86	O
ATOM	9872	N	SER	C	421	-1.815	93.009	72.047	1.00	42.12	N
ATOM	9873	CA	SER	C	421	-0.777	92.813	71.036	1.00	41.96	C
ATOM	9874	C	SER	C	421	-0.605	94.088	70.216	1.00	41.38	C
ATOM	9875	O	SER	C	421	-1.542	94.875	70.083	1.00	41.49	O
ATOM	9876	CB	SER	C	421	-1.151	91.652	70.105	1.00	40.37	C
ATOM	9877	OG	SER	C	421	-2.290	91.966	69.320	1.00	38.27	O
ATOM	9878	N	THR	C	422	0.590	94.289	69.666	1.00	41.46	N
ATOM	9879	CA	THR	C	422	0.867	95.472	68.857	1.00	41.63	C



ATOM	9880	C	THR	C	422	0.051	95.468	67.562	1.00	42.53	C
ATOM	9881	O	THR	C	422	-0.207	96.523	66.981	1.00	42.76	O
ATOM	9882	CB	THR	C	422	2.360	95.573	68.498	1.00	40.55	C
ATOM	9883	OG1	THR	C	422	2.737	94.454	67.687	1.00	40.35	O
ATOM	9884	CG2	THR	C	422	3.206	95.600	69.767	1.00	40.34	C
ATOM	9885	N	GLU	C	423	-0.348	94.281	67.109	1.00	41.76	N
ATOM	9886	CA	GLU	C	423	-1.155	94.154	65.897	1.00	41.19	C
ATOM	9887	C	GLU	C	423	-2.535	94.748	66.176	1.00	41.91	C
ATOM	9888	O	GLU	C	423	-3.110	95.441	65.336	1.00	41.30	O
ATOM	9889	CB	GLU	C	423	-1.282	92.677	65.501	1.00	38.67	C
ATOM	9890	CG	GLU	C	423	-2.233	92.402	64.343	1.00	34.99	C
ATOM	9891	CD	GLU	C	423	-2.044	91.008	63.755	1.00	31.85	C
ATOM	9892	OE1	GLU	C	423	-0.945	90.739	63.227	1.00	30.37	C
ATOM	9893	OE2	GLU	C	423	-2.984	90.189	63.819	1.00	28.15	O
ATOM	9894	N	GLU	C	424	-3.050	94.471	67.372	1.00	42.96	N
ATOM	9895	CA	GLU	C	424	-4.352	94.968	67.805	1.00	44.33	C
ATOM	9896	C	GLU	C	424	-4.355	96.489	67.983	1.00	44.56	C
ATOM	9897	O	GLU	C	424	-5.373	97.146	67.748	1.00	44.36	O
ATOM	9898	CB	GLU	C	424	-4.746	94.289	69.121	1.00	45.41	C
ATOM	9899	CG	GLU	C	424	-5.905	94.942	69.853	1.00	47.16	C
ATOM	9900	CD	GLU	C	424	-6.317	94.170	71.094	1.00	48.77	C
ATOM	9901	OE1	GLU	C	424	-6.913	93.081	70.946	1.00	50.41	O
ATOM	9902	OE2	GLU	C	424	-6.039	94.644	72.217	1.00	47.70	O
ATOM	9903	N	GLY	C	425	-3.213	97.046	68.383	1.00	44.78	N
ATOM	9904	CA	GLY	C	425	-3.126	98.481	68.594	1.00	46.01	C
ATOM	9905	C	GLY	C	425	-2.301	99.290	67.606	1.00	46.76	C
ATOM	9906	O	GLY	C	425	-2.036	100.467	67.850	1.00	47.98	O
ATOM	9907	N	GLN	C	426	-1.892	98.685	66.494	1.00	46.46	N
ATOM	9908	CA	GLN	C	426	-1.100	99.401	65.496	1.00	45.37	C
ATOM	9909	C	GLN	C	426	-1.505	99.064	64.068	1.00	45.95	C
ATOM	9910	O	GLN	C	426	-0.922	99.584	63.112	1.00	46.59	O
ATOM	9911	CB	GLN	C	426	0.391	99.105	65.673	1.00	43.62	C
ATOM	9912	CG	GLN	C	426	1.020	99.745	66.894	1.00	43.31	C
ATOM	9913	CD	GLN	C	426	2.517	99.491	66.975	1.00	45.63	C
ATOM	9914	OE1	GLN	C	426	3.253	99.720	66.010	1.00	45.41	O
ATOM	9915	NE2	GLN	C	426	2.977	99.023	68.132	1.00	45.51	N
ATOM	9916	N	PHE	C	427	-2.498	98.192	63.921	1.00	45.89	N
ATOM	9917	CA	PHE	C	427	-2.971	97.793	62.599	1.00	45.29	C
ATOM	9918	C	PHE	C	427	-4.490	97.892	62.503	1.00	46.20	C
ATOM	9919	O	PHE	C	427	-4.969	98.543	61.549	1.00	47.46	O
ATOM	9920	CB	PHE	C	427	-2.513	96.362	62.272	1.00	43.13	C
ATOM	9921	CG	PHE	C	427	-1.020	96.223	62.085	1.00	42.37	C
ATOM	9922	CD1	PHE	C	427	-0.149	96.356	63.167	1.00	41.39	C
ATOM	9923	CD2	PHE	C	427	-0.485	95.973	60.822	1.00	41.34	C
ATOM	9924	CE1	PHE	C	427	1.234	96.243	62.995	1.00	40.67	C
ATOM	9925	CE2	PHE	C	427	0.895	95.859	60.637	1.00	40.38	C
ATOM	9926	CZ	PHE	C	427	1.756	95.995	61.726	1.00	40.48	C
TER	9927		PHE	C	427						
ATOM	9928	N	ALA	D	1	39.651	51.900	68.886	1.00	50.41	N
ATOM	9929	CA	ALA	D	1	41.078	52.319	69.018	1.00	50.01	C
ATOM	9930	C	ALA	D	1	41.463	53.331	67.938	1.00	49.44	C
ATOM	9931	O	ALA	D	1	41.953	52.962	66.869	1.00	49.26	O
ATOM	9932	CB	ALA	D	1	41.986	51.096	68.937	1.00	50.12	C
ATOM	9933	N	SER	D	2	41.237	54.609	68.230	1.00	48.72	N
ATOM	9934	CA	SER	D	2	41.553	55.690	67.300	1.00	47.96	C
ATOM	9935	C	SER	D	2	41.632	57.001	68.078	1.00	47.23	C
ATOM	9936	O	SER	D	2	40.956	57.167	69.095	1.00	49.58	O
ATOM	9937	CB	SER	D	2	40.471	55.785	66.218	1.00	47.82	C
ATOM	9938	OG	SER	D	2	40.794	56.767	65.249	1.00	47.62	O
ATOM	9939	N	VAL	D	3	42.453	57.933	67.606	1.00	44.67	N
ATOM	9940	CA	VAL	D	3	42.604	59.216	68.285	1.00	42.14	C
ATOM	9941	C	VAL	D	3	41.696	60.289	67.699	1.00	40.03	C
ATOM	9942	O	VAL	D	3	41.624	61.403	68.213	1.00	39.90	O
ATOM	9943	CB	VAL	D	3	44.060	59.708	68.207	1.00	42.22	C
ATOM	9944	CG1	VAL	D	3	44.960	58.788	69.012	1.00	43.68	C
ATOM	9945	CG2	VAL	D	3	44.513	59.744	66.756	1.00	42.95	C
ATOM	9946	N	VAL	D	4	41.005	59.953	66.617	1.00	38.36	N
ATOM	9947	CA	VAL	D	4	40.109	60.901	65.972	1.00	33.62	C
ATOM	9948	C	VAL	D	4	39.026	61.324	66.948	1.00	32.11	C
ATOM	9949	O	VAL	D	4	38.366	60.482	67.555	1.00	30.89	O
ATOM	9950	CB	VAL	D	4	39.438	60.283	64.733	1.00	32.76	C
ATOM	9951	CG1	VAL	D	4	38.539	61.304	64.068	1.00	32.34	C
ATOM	9952	CG2	VAL	D	4	40.495	59.798	63.761	1.00	33.35	C
ATOM	9953	N	GLY	D	5	38.857	62.633	67.104	1.00	30.34	N
ATOM	9954	CA	GLY	D	5	37.841	63.146	68.000	1.00	29.56	C
ATOM	9955	C	GLY	D	5	38.148	63.026	69.479	1.00	29.57	C
ATOM	9956	O	GLY	D	5	37.242	63.134	70.303	1.00	29.19	O
ATOM	9957	N	THR	D	6	39.412	62.801	69.827	1.00	29.35	N
ATOM	9958	CA	THR	D	6	39.787	62.690	71.232	1.00	29.17	C
ATOM	9959	C	THR	D	6	39.483	64.009	71.938	1.00	27.82	C



ATOM	9960	O	THR	D	6	39.846	65.080	71.457	1.00	25.77	O
ATOM	9961	CB	THR	D	6	41.283	62.377	71.403	1.00	32.17	C
ATOM	9962	OG1	THR	D	6	41.569	61.072	70.875	1.00	34.94	O
ATOM	9963	CG2	THR	D	6	41.654	62.418	72.878	1.00	31.64	C
ATOM	9964	N	PRO	D	7	38.812	63.947	73.095	1.00	28.38	N
ATOM	9965	CA	PRO	D	7	38.470	65.165	73.839	1.00	29.16	C
ATOM	9966	C	PRO	D	7	39.693	65.917	74.354	1.00	28.62	C
ATOM	9967	O	PRO	D	7	40.728	65.315	74.628	1.00	28.63	O
ATOM	9968	CB	PRO	D	7	37.614	64.643	74.996	1.00	27.15	C
ATOM	9969	CG	PRO	D	7	37.091	63.329	74.493	1.00	29.67	C
ATOM	9970	CD	PRO	D	7	38.278	62.756	73.773	1.00	27.52	C
ATOM	9971	N	LYS	D	8	39.562	67.234	74.476	1.00	28.90	N
ATOM	9972	CA	LYS	D	8	40.635	68.063	75.010	1.00	28.80	C
ATOM	9973	C	LYS	D	8	40.672	67.821	76.514	1.00	28.38	C
ATOM	9974	O	LYS	D	8	39.673	67.406	77.106	1.00	27.70	O
ATOM	9975	CB	LYS	D	8	40.355	69.545	74.769	1.00	27.62	C
ATOM	9976	CG	LYS	D	8	40.334	69.960	73.321	1.00	28.91	C
ATOM	9977	CD	LYS	D	8	40.053	71.449	73.206	1.00	30.54	C
ATOM	9978	CE	LYS	D	8	39.922	71.862	71.753	1.00	29.46	C
ATOM	9979	NZ	LYS	D	8	39.495	73.274	71.636	1.00	31.75	N
ATOM	9980	N	SER	D	9	41.819	68.084	77.129	1.00	28.31	N
ATOM	9981	CA	SER	D	9	41.963	67.911	78.567	1.00	28.26	C
ATOM	9982	C	SER	D	9	41.343	69.130	79.240	1.00	27.07	C
ATOM	9983	O	SER	D	9	41.144	70.162	78.599	1.00	27.64	O
ATOM	9984	CB	SER	D	9	43.446	67.802	78.946	1.00	29.99	C
ATOM	9985	OG	SER	D	9	44.129	69.024	78.712	1.00	28.57	O
ATOM	9986	N	ALA	D	10	41.033	69.013	80.524	1.00	28.10	N
ATOM	9987	CA	ALA	D	10	40.444	70.127	81.258	1.00	29.58	C
ATOM	9988	C	ALA	D	10	41.417	71.302	81.270	1.00	30.54	C
ATOM	9989	O	ALA	D	10	41.011	72.464	81.170	1.00	30.58	O
ATOM	9990	CB	ALA	D	10	40.118	69.702	82.683	1.00	29.50	C
ATOM	9991	N	GLU	D	11	42.705	70.990	81.385	1.00	32.17	N
ATOM	9992	CA	GLU	D	11	43.747	72.012	81.411	1.00	33.49	C
ATOM	9993	C	GLU	D	11	43.725	72.841	80.133	1.00	33.05	C
ATOM	9994	O	GLU	D	11	43.794	74.071	80.184	1.00	31.56	O
ATOM	9995	CB	GLU	D	11	45.127	71.368	81.576	1.00	36.81	C
ATOM	9996	CG	GLU	D	11	45.350	70.638	82.897	1.00	41.24	C
ATOM	9997	CD	GLU	D	11	44.394	69.471	83.111	1.00	45.37	C
ATOM	9998	OE1	GLU	D	11	44.229	68.644	82.186	1.00	45.86	O
ATOM	9999	OE2	GLU	D	11	43.812	69.377	84.215	1.00	47.91	O
ATOM	10000	N	GLN	D	12	43.640	72.165	78.988	1.00	32.94	N
ATOM	10001	CA	GLN	D	12	43.597	72.852	77.699	1.00	33.82	C
ATOM	10002	C	GLN	D	12	42.384	73.769	77.646	1.00	32.99	C
ATOM	10003	O	GLN	D	12	42.471	74.909	77.189	1.00	32.85	O
ATOM	10004	CB	GLN	D	12	43.498	71.849	76.554	1.00	35.59	C
ATOM	10005	CG	GLN	D	12	44.673	70.915	76.428	1.00	38.69	C
ATOM	10006	CD	GLN	D	12	44.457	69.880	75.338	1.00	42.60	C
ATOM	10007	OE1	GLN	D	12	44.252	70.224	74.165	1.00	42.07	O
ATOM	10008	NE2	GLN	D	12	44.493	68.604	75.719	1.00	41.84	N
ATOM	10009	N	ILE	D	13	41.249	73.254	78.109	1.00	32.92	N
ATOM	10010	CA	ILE	D	13	40.009	74.022	78.123	1.00	32.46	C
ATOM	10011	C	ILE	D	13	40.168	75.257	78.995	1.00	32.52	C
ATOM	10012	O	ILE	D	13	39.860	76.373	78.572	1.00	31.66	O
ATOM	10013	CB	ILE	D	13	38.832	73.172	78.662	1.00	31.44	C
ATOM	10014	CG1	ILE	D	13	38.513	72.048	77.670	1.00	30.32	C
ATOM	10015	CG2	ILE	D	13	37.607	74.057	78.905	1.00	29.49	C
ATOM	10016	CD1	ILE	D	13	37.378	71.158	78.105	1.00	29.70	C
ATOM	10017	N	GLN	D	14	40.657	75.042	80.212	1.00	33.67	N
ATOM	10018	CA	GLN	D	14	40.861	76.119	81.173	1.00	35.03	C
ATOM	10019	C	GLN	D	14	41.758	77.209	80.604	1.00	36.08	C
ATOM	10020	O	GLN	D	14	41.478	78.398	80.763	1.00	35.76	O
ATOM	10021	CB	GLN	D	14	41.472	75.568	82.461	1.00	34.60	C
ATOM	10022	CG	GLN	D	14	41.507	76.567	83.597	1.00	35.53	C
ATOM	10023	CD	GLN	D	14	40.124	77.042	83.980	1.00	36.87	C
ATOM	10024	OE1	GLN	D	14	39.261	76.241	84.336	1.00	37.58	O
ATOM	10025	NE2	GLN	D	14	39.902	78.352	83.906	1.00	36.32	N
ATOM	10026	N	GLN	D	15	42.840	76.808	79.942	1.00	37.45	N
ATOM	10027	CA	GLN	D	15	43.746	77.783	79.351	1.00	39.25	C
ATOM	10028	C	GLN	D	15	42.983	78.678	78.387	1.00	39.18	C
ATOM	10029	O	GLN	D	15	43.059	79.901	78.478	1.00	40.29	O
ATOM	10030	CB	GLN	D	15	44.889	77.086	78.612	1.00	41.87	C
ATOM	10031	CG	GLN	D	15	45.695	78.024	77.718	1.00	46.27	C
ATOM	10032	CD	GLN	D	15	46.908	77.354	77.101	1.00	50.02	C
ATOM	10033	OE1	GLN	D	15	47.892	77.072	77.786	1.00	52.31	O
ATOM	10034	NE2	GLN	D	15	46.839	77.086	75.800	1.00	52.25	N
ATOM	10035	N	GLU	D	16	42.249	78.064	77.463	1.00	39.00	N
ATOM	10036	CA	GLU	D	16	41.468	78.819	76.492	1.00	39.65	C
ATOM	10037	C	GLU	D	16	40.594	79.845	77.202	1.00	38.77	C
ATOM	10038	O	GLU	D	16	40.599	81.025	76.851	1.00	39.01	O
ATOM	10039	CB	GLU	D	16	40.588	77.878	75.666	1.00	41.31	C



ATOM	10040	CG	GLU	D	16	41.350	77.036	74.662	1.00	45.73	C
ATOM	10041	CD	GLU	D	16	40.471	75.993	73.993	1.00	48.67	C
ATOM	10042	OE1	GLU	D	16	39.375	76.360	73.511	1.00	50.75	O
ATOM	10043	OE2	GLU	D	16	40.878	74.809	73.944	1.00	50.01	O
ATOM	10044	N	TRP	D	17	39.849	79.397	78.206	1.00	36.88	N
ATOM	10045	CA	TRP	D	17	38.981	80.302	78.945	1.00	36.18	C
ATOM	10046	C	TRP	D	17	39.773	81.465	79.555	1.00	36.42	C
ATOM	10047	O	TRP	D	17	39.299	82.601	79.583	1.00	35.78	O
ATOM	10048	CB	TRP	D	17	38.225	79.538	80.045	1.00	33.52	C
ATOM	10049	CG	TRP	D	17	37.185	78.562	79.521	1.00	33.43	C
ATOM	10050	CD1	TRP	D	17	36.801	78.390	78.219	1.00	32.81	C
ATOM	10051	CD2	TRP	D	17	36.406	77.629	80.292	1.00	31.48	C
ATOM	10052	NE1	TRP	D	17	35.839	77.410	78.134	1.00	31.29	N
ATOM	10053	CE2	TRP	D	17	35.578	76.928	79.389	1.00	29.81	C
ATOM	10054	CE3	TRP	D	17	36.329	77.319	81.657	1.00	29.84	C
ATOM	10055	CZ2	TRP	D	17	34.684	75.935	79.805	1.00	30.27	C
ATOM	10056	CZ3	TRP	D	17	35.439	76.332	82.071	1.00	30.51	C
ATOM	10057	CH2	TRP	D	17	34.629	75.652	81.146	1.00	28.90	C
ATOM	10058	N	ASP	D	18	40.986	81.185	80.020	1.00	36.98	N
ATOM	10059	CA	ASP	D	18	41.810	82.216	80.638	1.00	38.33	C
ATOM	10060	C	ASP	D	18	42.538	83.138	79.669	1.00	38.59	C
ATOM	10061	O	ASP	D	18	42.729	84.320	79.963	1.00	39.77	O
ATOM	10062	CB	ASP	D	18	42.848	81.586	81.574	1.00	37.64	C
ATOM	10063	CG	ASP	D	18	42.216	80.813	82.715	1.00	38.26	C
ATOM	10064	OD1	ASP	D	18	41.097	81.177	83.142	1.00	39.32	O
ATOM	10065	OD2	ASP	D	18	42.849	79.848	83.197	1.00	37.89	O
ATOM	10066	N	THR	D	19	42.933	82.614	78.514	1.00	38.79	N
ATOM	10067	CA	THR	D	19	43.683	83.417	77.553	1.00	38.23	C
ATOM	10068	C	THR	D	19	42.921	83.984	76.352	1.00	38.40	C
ATOM	10069	O	THR	D	19	43.173	85.121	75.945	1.00	39.84	O
ATOM	10070	CB	THR	D	19	44.902	82.623	77.025	1.00	37.72	C
ATOM	10071	OG1	THR	D	19	44.454	81.491	76.274	1.00	40.09	O
ATOM	10072	CG2	THR	D	19	45.753	82.127	78.184	1.00	35.61	C
ATOM	10073	N	ASN	D	20	41.997	83.215	75.783	1.00	36.26	N
ATOM	10074	CA	ASN	D	20	41.256	83.691	74.619	1.00	35.11	C
ATOM	10075	C	ASN	D	20	40.341	84.856	74.977	1.00	34.80	C
ATOM	10076	O	ASN	D	20	39.512	84.751	75.883	1.00	35.32	O
ATOM	10077	CB	ASN	D	20	40.423	82.565	74.010	1.00	35.91	C
ATOM	10078	CG	ASN	D	20	39.904	82.913	72.629	1.00	36.68	C
ATOM	10079	OD1	ASN	D	20	39.421	84.025	72.396	1.00	35.28	O
ATOM	10080	ND2	ASN	D	20	39.994	81.960	71.703	1.00	36.17	N
ATOM	10081	N	PRO	D	21	40.478	85.983	74.256	1.00	33.31	N
ATOM	10082	CA	PRO	D	21	39.682	87.196	74.470	1.00	32.53	C
ATOM	10083	C	PRO	D	21	38.183	86.963	74.271	1.00	32.23	C
ATOM	10084	O	PRO	D	21	37.351	87.762	74.717	1.00	30.90	O
ATOM	10085	CB	PRO	D	21	40.255	88.173	73.439	1.00	32.10	C
ATOM	10086	CG	PRO	D	21	41.652	87.682	73.240	1.00	33.36	C
ATOM	10087	CD	PRO	D	21	41.463	86.198	73.183	1.00	32.17	C
ATOM	10088	N	ARG	D	22	37.848	85.871	73.593	1.00	30.81	N
ATOM	10089	CA	ARG	D	22	36.454	85.526	73.341	1.00	30.19	C
ATOM	10090	C	ARG	D	22	35.706	85.337	74.661	1.00	29.92	C
ATOM	10091	O	ARG	D	22	34.518	85.651	74.768	1.00	29.41	O
ATOM	10092	CB	ARG	D	22	36.379	84.232	72.522	1.00	29.14	C
ATOM	10093	CG	ARG	D	22	34.976	83.679	72.352	1.00	29.34	C
ATOM	10094	CD	ARG	D	22	34.105	84.597	71.516	1.00	27.46	C
ATOM	10095	NE	ARG	D	22	32.755	84.066	71.364	1.00	29.43	N
ATOM	10096	CZ	ARG	D	22	31.800	84.146	72.286	1.00	29.93	C
ATOM	10097	NH1	ARG	D	22	32.034	84.746	73.445	1.00	29.66	N
ATOM	10098	NH2	ARG	D	22	30.607	83.617	72.051	1.00	30.03	N
ATOM	10099	N	TRP	D	23	36.419	84.839	75.665	1.00	27.93	N
ATOM	10100	CA	TRP	D	23	35.836	84.571	76.970	1.00	28.98	C
ATOM	10101	C	TRP	D	23	36.110	85.667	77.995	1.00	30.88	C
ATOM	10102	O	TRP	D	23	35.825	85.503	79.184	1.00	28.72	O
ATOM	10103	CB	TRP	D	23	36.372	83.238	77.482	1.00	27.49	C
ATOM	10104	CG	TRP	D	23	36.234	82.149	76.462	1.00	29.08	C
ATOM	10105	CD1	TRP	D	23	37.226	81.349	75.970	1.00	26.92	C
ATOM	10106	CD2	TRP	D	23	35.029	81.752	75.792	1.00	28.03	C
ATOM	10107	NE1	TRP	D	23	36.715	80.480	75.037	1.00	27.05	N
ATOM	10108	CE2	TRP	D	23	35.369	80.706	74.909	1.00	27.81	C
ATOM	10109	CE3	TRP	D	23	33.694	82.180	75.855	1.00	28.54	C
ATOM	10110	CZ2	TRP	D	23	34.420	80.079	74.092	1.00	26.96	C
ATOM	10111	CZ3	TRP	D	23	32.751	81.554	75.043	1.00	26.81	C
ATOM	10112	CH2	TRP	D	23	33.121	80.516	74.175	1.00	25.74	C
ATOM	10113	N	LYS	D	24	36.660	86.778	77.518	1.00	32.83	N
ATOM	10114	CA	LYS	D	24	37.003	87.919	78.355	1.00	33.60	C
ATOM	10115	C	LYS	D	24	35.962	88.237	79.423	1.00	34.29	C
ATOM	10116	O	LYS	D	24	36.278	88.265	80.615	1.00	33.76	O
ATOM	10117	CB	LYS	D	24	37.220	89.151	77.468	1.00	36.01	C
ATOM	10118	CG	LYS	D	24	37.658	90.399	78.208	1.00	38.58	C
ATOM	10119	CD	LYS	D	24	37.759	91.595	77.262	1.00	42.42	C



ATOM	10120	CE	LYS	D	24	36.411	91.910	76.623	1.00	43.05	C
ATOM	10121	NZ	LYS	D	24	36.448	93.126	75.769	1.00	44.14	N
ATOM	10122	N	ASP	D	25	34.724	88.469	78.993	1.00	34.64	N
ATOM	10123	CA	ASP	D	25	33.638	88.820	79.904	1.00	35.25	C
ATOM	10124	C	ASP	D	25	32.644	87.687	80.156	1.00	34.45	C
ATOM	10125	O	ASP	D	25	31.520	87.931	80.596	1.00	33.91	O
ATOM	10126	CB	ASP	D	25	32.868	90.027	79.349	1.00	38.85	C
ATOM	10127	CG	ASP	D	25	33.768	91.213	79.050	1.00	41.12	C
ATOM	10128	OD1	ASP	D	25	34.490	91.656	79.968	1.00	43.50	O
ATOM	10129	OD2	ASP	D	25	33.747	91.705	77.899	1.00	41.88	O
ATOM	10130	N	VAL	D	26	33.050	86.453	79.892	1.00	33.35	N
ATOM	10131	CA	VAL	D	26	32.147	85.322	80.074	1.00	31.92	C
ATOM	10132	C	VAL	D	26	32.278	84.609	81.416	1.00	30.97	C
ATOM	10133	O	VAL	D	26	33.335	84.059	81.745	1.00	30.63	O
ATOM	10134	CB	VAL	D	26	32.337	84.289	78.941	1.00	30.87	C
ATOM	10135	CG1	VAL	D	26	31.338	83.148	79.095	1.00	29.58	C
ATOM	10136	CG2	VAL	D	26	32.162	84.970	77.594	1.00	30.54	C
ATOM	10137	N	THR	D	27	31.195	84.621	82.189	1.00	29.24	N
ATOM	10138	CA	THR	D	27	31.179	83.950	83.481	1.00	29.78	C
ATOM	10139	C	THR	D	27	30.595	82.541	83.350	1.00	29.88	C
ATOM	10140	O	THR	D	27	29.500	82.363	82.816	1.00	31.22	O
ATOM	10141	CB	THR	D	27	30.341	84.732	84.516	1.00	30.80	C
ATOM	10142	OG1	THR	D	27	31.011	85.953	84.854	1.00	32.76	O
ATOM	10143	CG2	THR	D	27	30.149	83.910	85.781	1.00	29.72	C
ATOM	10144	N	ARG	D	28	31.340	81.548	83.827	1.00	28.20	N
ATOM	10145	CA	ARG	D	28	30.901	80.155	83.798	1.00	27.35	C
ATOM	10146	C	ARG	D	28	30.826	79.666	85.237	1.00	27.69	C
ATOM	10147	O	ARG	D	28	31.848	79.614	85.922	1.00	27.96	O
ATOM	10148	CB	ARG	D	28	31.901	79.286	83.027	1.00	26.37	C
ATOM	10149	CG	ARG	D	28	31.919	79.496	81.519	1.00	27.22	C
ATOM	10150	CD	ARG	D	28	32.891	78.527	80.872	1.00	26.52	C
ATOM	10151	NE	ARG	D	28	32.773	78.457	79.415	1.00	27.71	N
ATOM	10152	CZ	ARG	D	28	33.297	79.332	78.558	1.00	28.27	C
ATOM	10153	NH1	ARG	D	28	33.988	80.377	78.997	1.00	28.67	N
ATOM	10154	NH2	ARG	D	28	33.151	79.144	77.251	1.00	26.28	N
ATOM	10155	N	THR	D	29	29.631	79.306	85.703	1.00	26.76	N
ATOM	10156	CA	THR	D	29	29.492	78.840	87.076	1.00	27.68	C
ATOM	10157	C	THR	D	29	29.835	77.364	87.279	1.00	28.28	C
ATOM	10158	O	THR	D	29	29.621	76.819	88.357	1.00	30.29	O
ATOM	10159	CB	THR	D	29	28.072	79.117	87.635	1.00	28.65	C
ATOM	10160	OG1	THR	D	29	27.088	78.549	86.765	1.00	29.04	O
ATOM	10161	CG2	THR	D	29	27.833	80.622	87.758	1.00	26.98	C
ATOM	10162	N	TYR	D	30	30.360	76.720	86.241	1.00	26.96	N
ATOM	10163	CA	TYR	D	30	30.776	75.317	86.322	1.00	25.18	C
ATOM	10164	C	TYR	D	30	32.251	75.274	85.915	1.00	24.25	C
ATOM	10165	O	TYR	D	30	32.775	76.259	85.399	1.00	23.77	O
ATOM	10166	CB	TYR	D	30	29.918	74.436	85.394	1.00	23.76	C
ATOM	10167	CG	TYR	D	30	29.747	74.989	83.994	1.00	22.71	C
ATOM	10168	CD1	TYR	D	30	30.757	74.860	83.038	1.00	22.48	C
ATOM	10169	CD2	TYR	D	30	28.584	75.667	83.632	1.00	21.06	C
ATOM	10170	CE1	TYR	D	30	30.611	75.397	81.758	1.00	22.82	C
ATOM	10171	CE2	TYR	D	30	28.426	76.205	82.353	1.00	22.87	C
ATOM	10172	CZ	TYR	D	30	29.443	76.066	81.426	1.00	21.56	C
ATOM	10173	OH	TYR	D	30	29.293	76.600	80.172	1.00	22.98	O
ATOM	10174	N	SER	D	31	32.919	74.147	86.136	1.00	24.51	N
ATOM	10175	CA	SER	D	31	34.341	74.039	85.809	1.00	25.57	C
ATOM	10176	C	SER	D	31	34.657	73.333	84.494	1.00	27.09	C
ATOM	10177	O	SER	D	31	33.793	72.689	83.891	1.00	28.50	O
ATOM	10178	CB	SER	D	31	35.067	73.300	86.924	1.00	23.91	C
ATOM	10179	OG	SER	D	31	34.785	71.913	86.845	1.00	24.86	O
ATOM	10180	N	ALA	D	32	35.914	73.445	84.068	1.00	26.33	N
ATOM	10181	CA	ALA	D	32	36.373	72.805	82.843	1.00	27.34	C
ATOM	10182	C	ALA	D	32	36.285	71.291	83.014	1.00	28.46	C
ATOM	10183	O	ALA	D	32	36.012	70.560	82.059	1.00	28.82	O
ATOM	10184	CB	ALA	D	32	37.807	73.219	82.537	1.00	26.76	C
ATOM	10185	N	GLU	D	33	36.523	70.823	84.236	1.00	29.15	N
ATOM	10186	CA	GLU	D	33	36.443	69.397	84.531	1.00	30.47	C
ATOM	10187	C	GLU	D	33	35.003	68.933	84.312	1.00	29.66	C
ATOM	10188	O	GLU	D	33	34.775	67.824	83.825	1.00	29.35	O
ATOM	10189	CB	GLU	D	33	36.841	69.106	85.988	1.00	34.39	C
ATOM	10190	CG	GLU	D	33	38.302	69.370	86.355	1.00	40.07	C
ATOM	10191	CD	GLU	D	33	38.701	70.836	86.221	1.00	45.26	C
ATOM	10192	OE1	GLU	D	33	38.034	71.710	86.823	1.00	44.80	O
ATOM	10193	OE2	GLU	D	33	39.694	71.109	85.512	1.00	48.42	O
ATOM	10194	N	ASP	D	34	34.037	69.777	84.681	1.00	27.78	N
ATOM	10195	CA	ASP	D	34	32.622	69.429	84.515	1.00	27.91	C
ATOM	10196	C	ASP	D	34	32.288	69.182	83.052	1.00	26.25	C
ATOM	10197	O	ASP	D	34	31.516	68.277	82.729	1.00	26.83	O
ATOM	10198	CB	ASP	D	34	31.701	70.541	85.039	1.00	28.01	C
ATOM	10199	CG	ASP	D	34	31.732	70.672	86.548	1.00	28.93	C



ATOM	10200	OD1	ASP	D	34	31.854	69.637	87.237	1.00	30.54	O
ATOM	10201	OD2	ASP	D	34	31.613	71.810	87.045	1.00	30.21	O
ATOM	10202	N	VAL	D	35	32.872	69.998	82.177	1.00	23.93	N
ATOM	10203	CA	VAL	D	35	32.645	69.889	80.744	1.00	21.08	C
ATOM	10204	C	VAL	D	35	33.228	68.583	80.233	1.00	22.71	C
ATOM	10205	O	VAL	D	35	32.554	67.824	79.528	1.00	23.78	O
ATOM	10206	CB	VAL	D	35	33.289	71.066	79.987	1.00	18.21	C
ATOM	10207	CG1	VAL	D	35	33.105	70.888	78.485	1.00	19.91	C
ATOM	10208	CG2	VAL	D	35	32.658	72.369	80.430	1.00	15.06	C
ATOM	10209	N	VAL	D	36	34.476	68.318	80.602	1.00	21.37	N
ATOM	10210	CA	VAL	D	36	35.152	67.096	80.189	1.00	20.07	C
ATOM	10211	C	VAL	D	36	34.391	65.849	80.645	1.00	20.70	C
ATOM	10212	O	VAL	D	36	34.270	64.883	79.895	1.00	21.47	O
ATOM	10213	CB	VAL	D	36	36.599	67.055	80.744	1.00	20.73	C
ATOM	10214	CG1	VAL	D	36	37.207	65.673	80.548	1.00	15.72	C
ATOM	10215	CG2	VAL	D	36	37.448	68.108	80.034	1.00	18.81	C
ATOM	10216	N	ALA	D	37	33.873	65.871	81.868	1.00	19.80	N
ATOM	10217	CA	ALA	D	37	33.127	64.730	82.396	1.00	21.80	C
ATOM	10218	C	ALA	D	37	31.896	64.378	81.551	1.00	22.69	C
ATOM	10219	O	ALA	D	37	31.417	63.247	81.598	1.00	23.23	O
ATOM	10220	CB	ALA	D	37	32.696	65.005	83.847	1.00	21.35	C
ATOM	10221	N	LEU	D	38	31.393	65.342	80.781	1.00	22.72	N
ATOM	10222	CA	LEU	D	38	30.211	65.128	79.947	1.00	22.55	C
ATOM	10223	C	LEU	D	38	30.481	64.821	78.470	1.00	22.34	C
ATOM	10224	O	LEU	D	38	29.550	64.540	77.720	1.00	22.15	O
ATOM	10225	CB	LEU	D	38	29.295	66.356	80.029	1.00	19.42	C
ATOM	10226	CG	LEU	D	38	28.682	66.692	81.392	1.00	20.55	C
ATOM	10227	CD1	LEU	D	38	28.076	68.086	81.380	1.00	17.65	C
ATOM	10228	CD2	LEU	D	38	27.639	65.658	81.736	1.00	20.61	C
ATOM	10229	N	GLN	D	39	31.740	64.861	78.050	1.00	22.18	N
ATOM	10230	CA	GLN	D	39	32.063	64.625	76.645	1.00	22.61	C
ATOM	10231	C	GLN	D	39	32.319	63.183	76.233	1.00	22.42	C
ATOM	10232	O	GLN	D	39	32.616	62.920	75.072	1.00	21.99	O
ATOM	10233	CB	GLN	D	39	33.272	65.469	76.242	1.00	23.65	C
ATOM	10234	CG	GLN	D	39	33.086	66.958	76.446	1.00	25.52	C
ATOM	10235	CD	GLN	D	39	34.330	67.742	76.082	1.00	28.02	C
ATOM	10236	OE1	GLN	D	39	35.424	67.444	76.565	1.00	29.88	O
ATOM	10237	NE2	GLN	D	39	34.171	68.754	75.228	1.00	28.01	N
ATOM	10238	N	GLY	D	40	32.196	62.243	77.161	1.00	23.49	N
ATOM	10239	CA	GLY	D	40	32.457	60.861	76.799	1.00	25.55	C
ATOM	10240	C	GLY	D	40	33.903	60.749	76.342	1.00	27.49	C
ATOM	10241	O	GLY	D	40	34.759	61.508	76.809	1.00	27.87	O
ATOM	10242	N	SER	D	41	34.190	59.823	75.430	1.00	27.22	N
ATOM	10243	CA	SER	D	41	35.557	59.658	74.949	1.00	27.23	C
ATOM	10244	C	SER	D	41	35.755	60.163	73.525	1.00	27.02	C
ATOM	10245	O	SER	D	41	36.868	60.141	72.999	1.00	26.26	O
ATOM	10246	CB	SER	D	41	35.989	58.194	75.059	1.00	25.95	C
ATOM	10247	OG	SER	D	41	35.010	57.333	74.523	1.00	31.04	O
ATOM	10248	N	VAL	D	42	34.676	60.626	72.903	1.00	25.99	N
ATOM	10249	CA	VAL	D	42	34.761	61.151	71.549	1.00	24.16	C
ATOM	10250	C	VAL	D	42	33.964	62.436	71.433	1.00	24.49	C
ATOM	10251	O	VAL	D	42	32.834	62.531	71.909	1.00	24.93	O
ATOM	10252	CB	VAL	D	42	34.229	60.145	70.509	1.00	25.70	C
ATOM	10253	CG1	VAL	D	42	34.336	60.742	69.111	1.00	24.86	C
ATOM	10254	CG2	VAL	D	42	35.015	58.855	70.584	1.00	23.84	C
ATOM	10255	N	VAL	D	43	34.575	63.441	70.824	1.00	23.67	N
ATOM	10256	CA	VAL	D	43	33.910	64.711	70.623	1.00	23.57	C
ATOM	10257	C	VAL	D	43	33.796	64.926	69.129	1.00	23.82	C
ATOM	10258	O	VAL	D	43	34.800	64.930	68.428	1.00	24.56	O
ATOM	10259	CB	VAL	D	43	34.709	65.888	71.228	1.00	23.38	C
ATOM	10260	CG1	VAL	D	43	34.133	67.211	70.746	1.00	22.56	C
ATOM	10261	CG2	VAL	D	43	34.656	65.830	72.740	1.00	24.35	C
ATOM	10262	N	GLU	D	44	32.570	65.081	68.642	1.00	24.09	N
ATOM	10263	CA	GLU	D	44	32.346	65.325	67.225	1.00	22.67	C
ATOM	10264	C	GLU	D	44	32.689	66.767	66.882	1.00	23.26	C
ATOM	10265	O	GLU	D	44	32.359	67.695	67.622	1.00	24.11	O
ATOM	10266	CB	GLU	D	44	30.885	65.078	66.848	1.00	21.10	C
ATOM	10267	CG	GLU	D	44	30.482	63.620	66.749	1.00	21.10	C
ATOM	10268	CD	GLU	D	44	29.042	63.458	66.316	1.00	19.37	C
ATOM	10269	OE1	GLU	D	44	28.139	63.680	67.148	1.00	22.56	O
ATOM	10270	OE2	GLU	D	44	28.811	63.123	65.138	1.00	20.04	O
ATOM	10271	N	GLU	D	45	33.354	66.947	65.750	1.00	23.34	N
ATOM	10272	CA	GLU	D	45	33.715	68.267	65.273	1.00	22.59	C
ATOM	10273	C	GLU	D	45	32.480	68.854	64.580	1.00	23.92	C
ATOM	10274	O	GLU	D	45	31.816	68.170	63.790	1.00	23.64	O
ATOM	10275	CB	GLU	D	45	34.878	68.145	64.281	1.00	23.29	C
ATOM	10276	CG	GLU	D	45	35.262	69.420	63.543	1.00	23.92	C
ATOM	10277	CD	GLU	D	45	35.610	70.554	64.478	1.00	24.42	C
ATOM	10278	OE1	GLU	D	45	36.050	70.280	65.607	1.00	28.87	O
ATOM	10279	OE2	GLU	D	45	35.456	71.724	64.082	1.00	26.34	O



ATOM	10280	N	HIS	D	46	32.162	70.108	64.893	1.00	21.93	N
ATOM	10281	CA	HIS	D	46	31.021	70.786	64.280	1.00	21.97	C
ATOM	10282	C	HIS	D	46	31.570	71.974	63.490	1.00	21.94	C
ATOM	10283	O	HIS	D	46	31.513	73.126	63.927	1.00	22.09	O
ATOM	10284	CB	HIS	D	46	30.039	71.252	65.356	1.00	19.69	C
ATOM	10285	CG	HIS	D	46	29.478	70.134	66.177	1.00	20.91	C
ATOM	10286	ND1	HIS	D	46	28.644	69.172	65.650	1.00	19.57	N
ATOM	10287	CD2	HIS	D	46	29.650	69.809	67.481	1.00	20.29	C
ATOM	10288	CE1	HIS	D	46	28.326	68.304	66.594	1.00	19.87	C
ATOM	10289	NE2	HIS	D	46	28.924	68.667	67.714	1.00	18.17	N
ATOM	10290	N	THR	D	47	32.107	71.661	62.319	1.00	21.35	N
ATOM	10291	CA	THR	D	47	32.722	72.635	61.439	1.00	19.98	C
ATOM	10292	C	THR	D	47	31.933	73.918	61.209	1.00	19.95	C
ATOM	10293	O	THR	D	47	32.429	75.014	61.469	1.00	21.47	O
ATOM	10294	CB	THR	D	47	33.032	71.987	60.084	1.00	20.53	C
ATOM	10295	OG1	THR	D	47	33.759	70.769	60.297	1.00	19.90	O
ATOM	10296	CG2	THR	D	47	33.862	72.921	59.226	1.00	21.11	C
ATOM	10297	N	LEU	D	48	30.705	73.793	60.724	1.00	19.31	N
ATOM	10298	CA	LEU	D	48	29.902	74.972	60.450	1.00	18.73	C
ATOM	10299	C	LEU	D	48	29.549	75.787	61.691	1.00	19.52	C
ATOM	10300	O	LEU	D	48	29.459	77.016	61.621	1.00	20.68	O
ATOM	10301	CB	LEU	D	48	28.634	74.576	59.689	1.00	19.05	C
ATOM	10302	CG	LEU	D	48	28.908	73.873	58.354	1.00	17.97	C
ATOM	10303	CD1	LEU	D	48	27.603	73.696	57.588	1.00	17.25	C
ATOM	10304	CD2	LEU	D	48	29.888	74.691	57.538	1.00	15.24	C
ATOM	10305	N	ALA	D	49	29.350	75.117	62.822	1.00	17.10	N
ATOM	10306	CA	ALA	D	49	29.026	75.825	64.058	1.00	19.80	C
ATOM	10307	C	ALA	D	49	30.241	76.619	64.539	1.00	20.08	C
ATOM	10308	O	ALA	D	49	30.121	77.757	64.987	1.00	20.39	O
ATOM	10309	CB	ALA	D	49	28.597	74.835	65.138	1.00	20.76	C
ATOM	10310	N	ARG	D	50	31.415	76.010	64.443	1.00	20.55	N
ATOM	10311	CA	ARG	D	50	32.635	76.677	64.876	1.00	23.22	C
ATOM	10312	C	ARG	D	50	32.977	77.854	63.968	1.00	24.58	C
ATOM	10313	O	ARG	D	50	33.155	78.979	64.436	1.00	27.26	O
ATOM	10314	CB	ARG	D	50	33.798	75.697	64.883	1.00	23.10	C
ATOM	10315	CG	ARG	D	50	35.087	76.305	65.392	1.00	23.86	C
ATOM	10316	CD	ARG	D	50	36.232	75.351	65.171	1.00	22.39	C
ATOM	10317	NE	ARG	D	50	36.007	74.075	65.838	1.00	20.99	N
ATOM	10318	CZ	ARG	D	50	35.855	73.934	67.151	1.00	22.71	C
ATOM	10319	NH1	ARG	D	50	35.899	74.998	67.944	1.00	20.31	N
ATOM	10320	NH2	ARG	D	50	35.673	72.726	67.672	1.00	19.67	N
ATOM	10321	N	ARG	D	51	33.062	77.592	62.669	1.00	24.32	N
ATOM	10322	CA	ARG	D	51	33.389	78.630	61.704	1.00	24.55	C
ATOM	10323	C	ARG	D	51	32.385	79.770	61.802	1.00	25.24	C
ATOM	10324	O	ARG	D	51	32.767	80.934	61.914	1.00	25.83	O
ATOM	10325	CB	ARG	D	51	33.384	78.044	60.293	1.00	25.92	C
ATOM	10326	CG	ARG	D	51	33.924	78.969	59.220	1.00	26.24	C
ATOM	10327	CD	ARG	D	51	34.044	78.216	57.910	1.00	26.07	C
ATOM	10328	NE	ARG	D	51	34.717	78.988	56.873	1.00	26.86	N
ATOM	10329	CZ	ARG	D	51	34.181	80.011	56.220	1.00	28.37	C
ATOM	10330	NH1	ARG	D	51	32.943	80.413	56.484	1.00	29.37	N
ATOM	10331	NH2	ARG	D	51	34.889	80.632	55.289	1.00	30.46	N
ATOM	10332	N	GLY	D	52	31.100	79.426	61.771	1.00	24.02	N
ATOM	10333	CA	GLY	D	52	30.060	80.434	61.860	1.00	22.81	C
ATOM	10334	C	GLY	D	52	30.158	81.307	63.100	1.00	23.31	C
ATOM	10335	O	GLY	D	52	30.032	82.531	63.010	1.00	22.56	O
ATOM	10336	N	ALA	D	53	30.376	80.684	64.257	1.00	23.15	N
ATOM	10337	CA	ALA	D	53	30.494	81.419	65.514	1.00	22.92	C
ATOM	10338	C	ALA	D	53	31.708	82.340	65.456	1.00	24.19	C
ATOM	10339	O	ALA	D	53	31.631	83.512	65.824	1.00	24.34	O
ATOM	10340	CB	ALA	D	53	30.627	80.456	66.676	1.00	21.63	C
ATOM	10341	N	GLU	D	54	32.832	81.807	64.988	1.00	25.02	N
ATOM	10342	CA	GLU	D	54	34.043	82.605	64.878	1.00	24.69	C
ATOM	10343	C	GLU	D	54	33.812	83.813	63.971	1.00	25.33	C
ATOM	10344	O	GLU	D	54	34.109	84.945	64.357	1.00	26.41	O
ATOM	10345	CB	GLU	D	54	35.192	81.746	64.352	1.00	25.40	C
ATOM	10346	CG	GLU	D	54	35.897	80.936	65.435	1.00	26.19	C
ATOM	10347	CD	GLU	D	54	36.974	80.020	64.887	1.00	26.65	C
ATOM	10348	OE1	GLU	D	54	37.495	80.292	63.784	1.00	27.66	O
ATOM	10349	OE2	GLU	D	54	37.312	79.032	65.572	1.00	29.92	O
ATOM	10350	N	VAL	D	55	33.274	83.577	62.775	1.00	24.82	N
ATOM	10351	CA	VAL	D	55	33.004	84.661	61.833	1.00	24.16	C
ATOM	10352	C	VAL	D	55	32.073	85.701	62.442	1.00	25.49	C
ATOM	10353	O	VAL	D	55	32.344	86.903	62.392	1.00	27.79	O
ATOM	10354	CB	VAL	D	55	32.351	84.134	60.532	1.00	24.75	C
ATOM	10355	CG1	VAL	D	55	31.858	85.302	59.684	1.00	22.22	C
ATOM	10356	CG2	VAL	D	55	33.352	83.289	59.746	1.00	24.57	C
ATOM	10357	N	LEU	D	56	30.967	85.237	63.012	1.00	25.86	N
ATOM	10358	CA	LEU	D	56	29.994	86.134	63.620	1.00	25.24	C
ATOM	10359	C	LEU	D	56	30.639	87.034	64.668	1.00	26.77	C



ATOM	10360	O	LEU	D	56	30.426	88.249	64.677	1.00	25.92	O
ATOM	10361	CB	LEU	D	56	28.869	85.324	64.263	1.00	24.17	C
ATOM	10362	CG	LEU	D	56	27.795	86.119	65.005	1.00	21.62	C
ATOM	10363	CD1	LEU	D	56	27.189	87.148	64.076	1.00	22.18	C
ATOM	10364	CD2	LEU	D	56	26.727	85.174	65.527	1.00	20.56	C
ATOM	10365	N	TRP	D	57	31.424	86.430	65.553	1.00	28.20	N
ATOM	10366	CA	TRP	D	57	32.095	87.173	66.611	1.00	30.38	C
ATOM	10367	C	TRP	D	57	32.995	88.244	65.999	1.00	30.83	C
ATOM	10368	O	TRP	D	57	32.982	89.398	66.424	1.00	30.12	O
ATOM	10369	CB	TRP	D	57	32.917	86.216	67.485	1.00	31.21	C
ATOM	10370	CG	TRP	D	57	33.443	86.850	68.736	1.00	33.84	C
ATOM	10371	CD1	TRP	D	57	34.749	87.092	69.046	1.00	33.92	C
ATOM	10372	CD2	TRP	D	57	32.670	87.347	69.838	1.00	34.30	C
ATOM	10373	NE1	TRP	D	57	34.839	87.712	70.274	1.00	35.85	N
ATOM	10374	CE2	TRP	D	57	33.578	87.879	70.781	1.00	33.96	C
ATOM	10375	CE3	TRP	D	57	31.296	87.394	70.121	1.00	34.95	C
ATOM	10376	CZ2	TRP	D	57	33.159	88.450	71.988	1.00	35.01	C
ATOM	10377	CZ3	TRP	D	57	30.878	87.962	71.322	1.00	33.93	C
ATOM	10378	CH2	TRP	D	57	31.809	88.482	72.241	1.00	34.38	C
ATOM	10379	N	GLU	D	58	33.765	87.854	64.989	1.00	32.16	N
ATOM	10380	CA	GLU	D	58	34.667	88.777	64.315	1.00	33.72	C
ATOM	10381	C	GLU	D	58	33.934	89.939	63.674	1.00	33.55	C
ATOM	10382	O	GLU	D	58	34.332	91.092	63.828	1.00	33.29	O
ATOM	10383	CB	GLU	D	58	35.463	88.051	63.238	1.00	36.95	C
ATOM	10384	CG	GLU	D	58	36.716	87.378	63.740	1.00	41.76	C
ATOM	10385	CD	GLU	D	58	37.504	86.756	62.609	1.00	46.65	C
ATOM	10386	OE1	GLU	D	58	37.681	87.439	61.575	1.00	46.54	O
ATOM	10387	OE2	GLU	D	58	37.947	85.592	62.754	1.00	49.71	O
ATOM	10388	N	GLN	D	59	32.869	89.632	62.941	1.00	33.29	N
ATOM	10389	CA	GLN	D	59	32.100	90.667	62.275	1.00	31.94	C
ATOM	10390	C	GLN	D	59	31.462	91.601	63.290	1.00	32.35	C
ATOM	10391	O	GLN	D	59	31.335	92.794	63.034	1.00	33.35	O
ATOM	10392	CB	GLN	D	59	31.012	90.052	61.390	1.00	32.37	C
ATOM	10393	CG	GLN	D	59	31.520	89.057	60.358	1.00	32.45	C
ATOM	10394	CD	GLN	D	59	30.425	88.605	59.397	1.00	34.03	C
ATOM	10395	OE1	GLN	D	59	29.270	88.419	59.792	1.00	32.95	O
ATOM	10396	NE2	GLN	D	59	30.787	88.415	58.135	1.00	32.48	N
ATOM	10397	N	LEU	D	60	31.055	91.067	64.438	1.00	31.81	N
ATOM	10398	CA	LEU	D	60	30.432	91.903	65.462	1.00	33.57	C
ATOM	10399	C	LEU	D	60	31.395	92.967	65.979	1.00	34.53	C
ATOM	10400	O	LEU	D	60	30.975	93.970	66.546	1.00	35.76	O
ATOM	10401	CB	LEU	D	60	29.924	91.051	66.634	1.00	32.03	C
ATOM	10402	CG	LEU	D	60	28.592	90.315	66.444	1.00	30.74	C
ATOM	10403	CD1	LEU	D	60	28.268	89.504	67.694	1.00	31.15	C
ATOM	10404	CD2	LEU	D	60	27.488	91.311	66.169	1.00	29.84	C
ATOM	10405	N	HIS	D	61	32.688	92.749	65.777	1.00	36.92	N
ATOM	10406	CA	HIS	D	61	33.692	93.704	66.222	1.00	39.34	C
ATOM	10407	C	HIS	D	61	34.218	94.577	65.085	1.00	40.96	C
ATOM	10408	O	HIS	D	61	34.395	95.782	65.261	1.00	41.84	O
ATOM	10409	CB	HIS	D	61	34.856	92.968	66.887	1.00	40.47	C
ATOM	10410	CG	HIS	D	61	34.502	92.342	68.200	1.00	42.70	C
ATOM	10411	ND1	HIS	D	61	34.246	93.085	69.333	1.00	43.45	N
ATOM	10412	CD2	HIS	D	61	34.346	91.045	68.558	1.00	43.39	C
ATOM	10413	CE1	HIS	D	61	33.947	92.272	70.332	1.00	44.98	C
ATOM	10414	NE2	HIS	D	61	34.000	91.029	69.888	1.00	44.94	N
ATOM	10415	N	ASP	D	62	34.446	93.979	63.918	1.00	41.46	N
ATOM	10416	CA	ASP	D	62	34.980	94.719	62.777	1.00	42.04	C
ATOM	10417	C	ASP	D	62	33.989	95.551	61.974	1.00	42.20	C
ATOM	10418	O	ASP	D	62	34.398	96.450	61.246	1.00	43.78	O
ATOM	10419	CB	ASP	D	62	35.695	93.770	61.815	1.00	43.63	C
ATOM	10420	CG	ASP	D	62	36.750	92.939	62.501	1.00	44.46	C
ATOM	10421	OD1	ASP	D	62	37.427	93.477	63.399	1.00	45.11	O
ATOM	10422	OD2	ASP	D	62	36.907	91.755	62.137	1.00	46.78	O
ATOM	10423	N	LEU	D	63	32.699	95.261	62.084	1.00	41.11	N
ATOM	10424	CA	LEU	D	63	31.711	96.019	61.323	1.00	39.64	C
ATOM	10425	C	LEU	D	63	31.013	97.051	62.192	1.00	39.30	C
ATOM	10426	O	LEU	D	63	30.944	96.900	63.412	1.00	39.82	O
ATOM	10427	CB	LEU	D	63	30.665	95.080	60.709	1.00	38.71	C
ATOM	10428	CG	LEU	D	63	31.173	93.939	59.822	1.00	38.74	C
ATOM	10429	CD1	LEU	D	63	29.985	93.231	59.187	1.00	37.50	C
ATOM	10430	CD2	LEU	D	63	32.094	94.482	58.749	1.00	37.46	C
ATOM	10431	N	GLU	D	64	30.500	98.101	61.556	1.00	38.01	N
ATOM	10432	CA	GLU	D	64	29.796	99.157	62.271	1.00	38.49	C
ATOM	10433	C	GLU	D	64	28.620	98.495	62.980	1.00	36.70	C
ATOM	10434	O	GLU	D	64	28.159	98.957	64.024	1.00	35.89	O
ATOM	10435	CB	GLU	D	64	29.299	100.219	61.286	1.00	40.02	C
ATOM	10436	CG	GLU	D	64	29.108	101.595	61.902	1.00	43.57	C
ATOM	10437	CD	GLU	D	64	28.741	102.648	60.869	1.00	46.55	C
ATOM	10438	OE1	GLU	D	64	29.408	102.703	59.813	1.00	47.51	O
ATOM	10439	OE2	GLU	D	64	27.792	103.427	61.113	1.00	48.00	O



ATOM	10440	N	TRP	D	65	28.141	97.407	62.383	1.00	34.97	N
ATOM	10441	CA	TRP	D	65	27.049	96.612	62.931	1.00	33.86	C
ATOM	10442	C	TRP	D	65	26.685	95.497	61.951	1.00	33.46	C
ATOM	10443	O	TRP	D	65	26.996	95.572	60.758	1.00	32.17	O
ATOM	10444	CB	TRP	D	65	25.828	97.493	63.259	1.00	32.87	C
ATOM	10445	CG	TRP	D	65	24.897	97.799	62.124	1.00	33.97	C
ATOM	10446	CD1	TRP	D	65	23.867	97.022	61.678	1.00	33.24	C
ATOM	10447	CD2	TRP	D	65	24.879	98.988	61.322	1.00	35.25	C
ATOM	10448	NE1	TRP	D	65	23.203	97.653	60.653	1.00	33.99	N
ATOM	10449	CE2	TRP	D	65	23.805	98.862	60.412	1.00	35.12	C
ATOM	10450	CE3	TRP	D	65	25.666	100.150	61.283	1.00	35.29	C
ATOM	10451	CZ2	TRP	D	65	23.496	99.856	59.471	1.00	35.40	C
ATOM	10452	CZ3	TRP	D	65	25.359	101.138	60.349	1.00	35.02	C
ATOM	10453	CH2	TRP	D	65	24.281	100.983	59.455	1.00	34.14	C
ATOM	10454	N	VAL	D	66	26.052	94.450	62.472	1.00	32.56	N
ATOM	10455	CA	VAL	D	66	25.648	93.304	61.668	1.00	29.92	C
ATOM	10456	C	VAL	D	66	24.131	93.232	61.585	1.00	29.37	C
ATOM	10457	O	VAL	D	66	23.455	93.130	62.611	1.00	29.85	O
ATOM	10458	CB	VAL	D	66	26.171	91.989	62.288	1.00	29.38	C
ATOM	10459	CG1	VAL	D	66	25.662	90.804	61.496	1.00	29.24	C
ATOM	10460	CG2	VAL	D	66	27.701	91.999	62.323	1.00	27.24	C
ATOM	10461	N	ASN	D	67	23.594	93.299	60.370	1.00	28.14	N
ATOM	10462	CA	ASN	D	67	22.149	93.218	60.189	1.00	28.10	C
ATOM	10463	C	ASN	D	67	21.752	91.978	59.398	1.00	27.96	C
ATOM	10464	O	ASN	D	67	22.566	91.394	58.674	1.00	28.12	O
ATOM	10465	CB	ASN	D	67	21.604	94.475	59.492	1.00	28.17	C
ATOM	10466	CG	ASN	D	67	22.252	94.735	58.139	1.00	28.99	C
ATOM	10467	OD1	ASN	D	67	22.923	93.874	57.574	1.00	29.51	O
ATOM	10468	ND2	ASN	D	67	22.035	95.929	57.610	1.00	28.71	N
ATOM	10469	N	ALA	D	68	20.494	91.574	59.544	1.00	27.32	N
ATOM	10470	CA	ALA	D	68	19.996	90.401	58.848	1.00	25.44	C
ATOM	10471	C	ALA	D	68	18.488	90.461	58.711	1.00	24.24	C
ATOM	10472	O	ALA	D	68	17.835	91.316	59.306	1.00	26.04	O
ATOM	10473	CB	ALA	D	68	20.398	89.143	59.607	1.00	25.83	C
ATOM	10474	N	LEU	D	69	17.951	89.542	57.915	1.00	23.31	N
ATOM	10475	CA	LEU	D	69	16.517	89.428	57.683	1.00	22.49	C
ATOM	10476	C	LEU	D	69	16.140	87.982	57.998	1.00	22.43	C
ATOM	10477	O	LEU	D	69	16.951	87.077	57.812	1.00	23.91	O
ATOM	10478	CB	LEU	D	69	16.184	89.725	56.214	1.00	22.38	C
ATOM	10479	CG	LEU	D	69	16.621	91.058	55.603	1.00	21.94	C
ATOM	10480	CD1	LEU	D	69	16.448	90.999	54.096	1.00	22.34	C
ATOM	10481	CD2	LEU	D	69	15.815	92.204	56.201	1.00	20.97	C
ATOM	10482	N	GLY	D	70	14.917	87.762	58.470	1.00	22.25	N
ATOM	10483	CA	GLY	D	70	14.489	86.409	58.779	1.00	20.88	C
ATOM	10484	C	GLY	D	70	14.418	85.538	57.539	1.00	21.62	C
ATOM	10485	O	GLY	D	70	13.900	85.974	56.506	1.00	23.44	O
ATOM	10486	N	ALA	D	71	14.947	84.317	57.628	1.00	20.09	N
ATOM	10487	CA	ALA	D	71	14.927	83.375	56.506	1.00	19.51	C
ATOM	10488	C	ALA	D	71	14.252	82.075	56.930	1.00	20.25	C
ATOM	10489	O	ALA	D	71	14.596	81.505	57.969	1.00	20.02	O
ATOM	10490	CB	ALA	D	71	16.341	83.086	56.028	1.00	16.38	C
ATOM	10491	N	LEU	D	72	13.300	81.602	56.129	1.00	20.12	N
ATOM	10492	CA	LEU	D	72	12.600	80.368	56.465	1.00	19.22	C
ATOM	10493	C	LEU	D	72	12.822	79.228	55.466	1.00	20.25	C
ATOM	10494	O	LEU	D	72	12.348	78.114	55.684	1.00	19.19	O
ATOM	10495	CB	LEU	D	72	11.105	80.634	56.635	1.00	19.70	C
ATOM	10496	CG	LEU	D	72	10.327	81.100	55.405	1.00	19.78	C
ATOM	10497	CD1	LEU	D	72	9.137	80.165	55.181	1.00	17.18	C
ATOM	10498	CD2	LEU	D	72	9.872	82.543	55.606	1.00	16.67	C
ATOM	10499	N	THR	D	73	13.522	79.509	54.368	1.00	19.56	N
ATOM	10500	CA	THR	D	73	13.839	78.480	53.382	1.00	18.62	C
ATOM	10501	C	THR	D	73	15.295	78.675	52.953	1.00	19.70	C
ATOM	10502	O	THR	D	73	15.860	79.760	53.119	1.00	20.89	O
ATOM	10503	CB	THR	D	73	12.935	78.551	52.128	1.00	17.93	C
ATOM	10504	OG1	THR	D	73	13.386	79.595	51.259	1.00	18.65	O
ATOM	10505	CG2	THR	D	73	11.494	78.815	52.527	1.00	16.95	C
ATOM	10506	N	GLY	D	74	15.905	77.623	52.419	1.00	18.90	N
ATOM	10507	CA	GLY	D	74	17.287	77.718	51.981	1.00	20.34	C
ATOM	10508	C	GLY	D	74	17.520	78.804	50.941	1.00	20.88	C
ATOM	10509	O	GLY	D	74	18.429	79.626	51.085	1.00	19.98	O
ATOM	10510	N	ASN	D	75	16.706	78.802	49.887	1.00	19.80	N
ATOM	10511	CA	ASN	D	75	16.825	79.792	48.825	1.00	18.79	C
ATOM	10512	C	ASN	D	75	16.738	81.207	49.402	1.00	20.40	C
ATOM	10513	O	ASN	D	75	17.405	82.125	48.922	1.00	20.74	O
ATOM	10514	CB	ASN	D	75	15.714	79.602	47.789	1.00	19.03	C
ATOM	10515	CG	ASN	D	75	15.928	78.390	46.898	1.00	18.14	C
ATOM	10516	OD1	ASN	D	75	16.786	77.538	47.159	1.00	21.25	O
ATOM	10517	ND2	ASN	D	75	15.133	78.301	45.837	1.00	15.09	N
ATOM	10518	N	MET	D	76	15.911	81.391	50.425	1.00	19.72	N
ATOM	10519	CA	MET	D	76	15.783	82.709	51.033	1.00	21.54	C



ATOM	10520	C	MET	D	76	17.136	83.188	51.547	1.00	22.92	C
ATOM	10521	O	MET	D	76	17.544	84.325	51.293	1.00	24.30	O
ATOM	10522	CB	MET	D	76	14.783	82.680	52.189	1.00	20.85	C
ATOM	10523	CG	MET	D	76	13.486	83.384	51.885	1.00	20.88	C
ATOM	10524	SD	MET	D	76	12.348	83.443	53.272	1.00	22.07	S
ATOM	10525	CE	MET	D	76	10.815	83.181	52.453	1.00	20.33	C
ATOM	10526	N	ALA	D	77	17.824	82.315	52.274	1.00	23.02	N
ATOM	10527	CA	ALA	D	77	19.130	82.639	52.821	1.00	22.43	C
ATOM	10528	C	ALA	D	77	20.123	82.887	51.693	1.00	23.62	O
ATOM	10529	O	ALA	D	77	20.948	83.802	51.776	1.00	24.44	O
ATOM	10530	CB	ALA	D	77	19.624	81.506	53.717	1.00	21.32	C
ATOM	10531	N	VAL	D	78	20.045	82.083	50.634	1.00	22.98	N
ATOM	10532	CA	VAL	D	78	20.968	82.250	49.518	1.00	21.80	C
ATOM	10533	C	VAL	D	78	20.855	83.640	48.900	1.00	22.27	C
ATOM	10534	O	VAL	D	78	21.866	84.300	48.678	1.00	23.01	O
ATOM	10535	CB	VAL	D	78	20.744	81.174	48.429	1.00	22.03	C
ATOM	10536	CG1	VAL	D	78	21.514	81.537	47.151	1.00	19.99	C
ATOM	10537	CG2	VAL	D	78	21.232	79.820	48.945	1.00	21.06	C
ATOM	10538	N	GLN	D	79	19.632	84.085	48.630	1.00	21.33	N
ATOM	10539	CA	GLN	D	79	19.425	85.404	48.042	1.00	22.85	C
ATOM	10540	C	GLN	D	79	19.887	86.508	49.002	1.00	23.91	C
ATOM	10541	O	GLN	D	79	20.361	87.562	48.576	1.00	23.41	O
ATOM	10542	CB	GLN	D	79	17.948	85.614	47.691	1.00	22.08	C
ATOM	10543	CG	GLN	D	79	17.406	84.686	46.602	1.00	20.90	C
ATOM	10544	CD	GLN	D	79	18.283	84.642	45.363	1.00	22.59	C
ATOM	10545	OE1	GLN	D	79	18.882	85.646	44.972	1.00	23.31	O
ATOM	10546	NE2	GLN	D	79	18.350	83.475	44.727	1.00	21.66	N
ATOM	10547	N	GLN	D	80	19.747	86.264	50.300	1.00	22.85	N
ATOM	10548	CA	GLN	D	80	20.162	87.248	51.281	1.00	23.27	C
ATOM	10549	C	GLN	D	80	21.672	87.449	51.222	1.00	24.09	C
ATOM	10550	O	GLN	D	80	22.159	88.577	51.296	1.00	25.11	O
ATOM	10551	CB	GLN	D	80	19.717	86.811	52.678	1.00	23.13	C
ATOM	10552	CG	GLN	D	80	18.235	87.032	52.912	1.00	20.01	C
ATOM	10553	CD	GLN	D	80	17.738	86.383	54.173	1.00	20.44	C
ATOM	10554	OE1	GLN	D	80	18.520	85.853	54.963	1.00	24.72	O
ATOM	10555	NE2	GLN	D	80	16.427	86.416	54.377	1.00	19.94	N
ATOM	10556	N	VAL	D	81	22.410	86.357	51.060	1.00	25.27	N
ATOM	10557	CA	VAL	D	81	23.862	86.433	50.982	1.00	25.58	C
ATOM	10558	C	VAL	D	81	24.292	86.973	49.622	1.00	28.15	C
ATOM	10559	O	VAL	D	81	25.242	87.752	49.529	1.00	28.62	O
ATOM	10560	CB	VAL	D	81	24.503	85.055	51.211	1.00	25.58	C
ATOM	10561	CG1	VAL	D	81	26.013	85.137	50.986	1.00	25.09	C
ATOM	10562	CG2	VAL	D	81	24.205	84.581	52.635	1.00	23.69	C
ATOM	10563	N	ARG	D	82	23.589	86.559	48.571	1.00	28.29	N
ATOM	10564	CA	ARG	D	82	23.885	87.028	47.223	1.00	29.27	C
ATOM	10565	C	ARG	D	82	23.745	88.550	47.189	1.00	29.62	C
ATOM	10566	O	ARG	D	82	24.544	89.239	46.564	1.00	30.87	O
ATOM	10567	CB	ARG	D	82	22.909	86.407	46.217	1.00	30.34	C
ATOM	10568	CG	ARG	D	82	22.938	87.046	44.831	1.00	30.16	C
ATOM	10569	CD	ARG	D	82	24.207	86.701	44.078	1.00	31.58	C
ATOM	10570	NE	ARG	D	82	24.215	85.304	43.650	1.00	32.84	N
ATOM	10571	CZ	ARG	D	82	25.278	84.692	43.140	1.00	34.77	C
ATOM	10572	NH1	ARG	D	82	26.419	85.357	42.998	1.00	34.68	N
ATOM	10573	NH2	ARG	D	82	25.207	83.414	42.782	1.00	35.90	N
ATOM	10574	N	ALA	D	83	22.725	89.056	47.877	1.00	29.74	N
ATOM	10575	CA	ALA	D	83	22.442	90.487	47.938	1.00	29.48	C
ATOM	10576	C	ALA	D	83	23.462	91.280	48.749	1.00	30.01	C
ATOM	10577	O	ALA	D	83	23.465	92.512	48.712	1.00	30.46	O
ATOM	10578	CB	ALA	D	83	21.048	90.710	48.507	1.00	30.75	C
ATOM	10579	N	GLY	D	84	24.316	90.582	49.494	1.00	29.82	N
ATOM	10580	CA	GLY	D	84	25.327	91.272	50.276	1.00	28.63	C
ATOM	10581	C	GLY	D	84	25.272	91.159	51.792	1.00	28.92	C
ATOM	10582	O	GLY	D	84	26.222	91.567	52.467	1.00	28.30	O
ATOM	10583	N	LEU	D	85	24.185	90.620	52.343	1.00	27.26	N
ATOM	10584	CA	LEU	D	85	24.083	90.495	53.792	1.00	26.91	C
ATOM	10585	C	LEU	D	85	25.159	89.529	54.284	1.00	27.22	C
ATOM	10586	O	LEU	D	85	25.578	88.639	53.550	1.00	28.85	O
ATOM	10587	CB	LEU	D	85	22.676	90.027	54.183	1.00	25.69	C
ATOM	10588	CG	LEU	D	85	21.585	90.978	53.676	1.00	25.47	C
ATOM	10589	CD1	LEU	D	85	20.238	90.591	54.255	1.00	25.28	C
ATOM	10590	CD2	LEU	D	85	21.928	92.413	54.072	1.00	25.91	C
ATOM	10591	N	LYS	D	86	25.626	89.713	55.513	1.00	27.96	N
ATOM	10592	CA	LYS	D	86	26.684	88.858	56.042	1.00	29.03	C
ATOM	10593	C	LYS	D	86	26.292	88.004	57.244	1.00	29.00	C
ATOM	10594	O	LYS	D	86	27.153	87.445	57.927	1.00	28.15	O
ATOM	10595	CB	LYS	D	86	27.907	89.708	56.388	1.00	31.54	C
ATOM	10596	CG	LYS	D	86	28.554	90.364	55.183	1.00	34.11	C
ATOM	10597	CD	LYS	D	86	29.861	91.034	55.573	1.00	38.11	C
ATOM	10598	CE	LYS	D	86	30.532	91.694	54.378	1.00	38.52	C
ATOM	10599	NZ	LYS	D	86	31.863	92.259	54.754	1.00	40.55	N



ATOM	10600	N	ALA	D	87	24.990	87.910	57.492	1.00	27.79	N
ATOM	10601	CA	ALA	D	87	24.458	87.110	58.584	1.00	26.48	C
ATOM	10602	C	ALA	D	87	23.037	86.690	58.211	1.00	26.59	C
ATOM	10603	O	ALA	D	87	22.376	87.351	57.402	1.00	24.38	O
ATOM	10604	CB	ALA	D	87	24.444	87.920	59.869	1.00	27.09	C
ATOM	10605	N	ILE	D	88	22.572	85.586	58.785	1.00	23.91	N
ATOM	10606	CA	ILE	D	88	21.220	85.117	58.510	1.00	22.75	C
ATOM	10607	C	ILE	D	88	20.461	84.995	59.819	1.00	22.89	C
ATOM	10608	O	ILE	D	88	20.985	84.448	60.790	1.00	23.40	O
ATOM	10609	CB	ILE	D	88	21.230	83.737	57.818	1.00	21.89	C
ATOM	10610	CG1	ILE	D	88	21.904	83.846	56.455	1.00	21.43	C
ATOM	10611	CG2	ILE	D	88	19.811	83.220	57.666	1.00	19.18	C
ATOM	10612	CD1	ILE	D	88	22.128	82.527	55.797	1.00	24.09	C
ATOM	10613	N	TYR	D	89	19.237	85.515	59.853	1.00	21.54	N
ATOM	10614	CA	TYR	D	89	18.426	85.415	61.059	1.00	21.71	C
ATOM	10615	C	TYR	D	89	17.347	84.345	60.865	1.00	23.04	C
ATOM	10616	O	TYR	D	89	16.601	84.368	59.881	1.00	23.99	O
ATOM	10617	CB	TYR	D	89	17.761	86.751	61.400	1.00	21.80	C
ATOM	10618	CG	TYR	D	89	16.900	86.631	62.629	1.00	23.45	C
ATOM	10619	CD1	TYR	D	89	17.476	86.421	63.880	1.00	23.19	C
ATOM	10620	CD2	TYR	D	89	15.508	86.598	62.529	1.00	22.13	C
ATOM	10621	CE1	TYR	D	89	16.690	86.169	64.996	1.00	24.47	C
ATOM	10622	CE2	TYR	D	89	14.712	86.348	63.640	1.00	21.56	C
ATOM	10623	CZ	TYR	D	89	15.310	86.132	64.867	1.00	21.84	C
ATOM	10624	OH	TYR	D	89	14.537	85.871	65.968	1.00	23.05	O
ATOM	10625	N	LEU	D	90	17.266	83.412	61.805	1.00	21.57	N
ATOM	10626	CA	LEU	D	90	16.290	82.333	61.732	1.00	21.73	C
ATOM	10627	C	LEU	D	90	15.204	82.498	62.801	1.00	21.55	C
ATOM	10628	O	LEU	D	90	15.365	82.102	63.958	1.00	21.66	O
ATOM	10629	CB	LEU	D	90	17.018	80.989	61.868	1.00	21.72	C
ATOM	10630	CG	LEU	D	90	16.284	79.637	61.832	1.00	23.58	C
ATOM	10631	CD1	LEU	D	90	14.927	79.735	61.189	1.00	21.93	C
ATOM	10632	CD2	LEU	D	90	17.165	78.647	61.090	1.00	20.46	C
ATOM	10633	N	SER	D	91	14.097	83.096	62.379	1.00	21.18	N
ATOM	10634	CA	SER	D	91	12.936	83.375	63.223	1.00	21.35	C
ATOM	10635	C	SER	D	91	12.113	82.147	63.604	1.00	21.02	C
ATOM	10636	O	SER	D	91	11.770	81.332	62.746	1.00	20.89	O
ATOM	10637	CB	SER	D	91	12.020	84.376	62.500	1.00	22.01	C
ATOM	10638	OG	SER	D	91	10.683	84.314	62.982	1.00	18.62	O
ATOM	10639	N	GLY	D	92	11.790	82.029	64.890	1.00	20.61	N
ATOM	10640	CA	GLY	D	92	10.972	80.919	65.351	1.00	20.19	C
ATOM	10641	C	GLY	D	92	9.536	81.203	64.940	1.00	21.95	C
ATOM	10642	O	GLY	D	92	8.740	80.288	64.699	1.00	23.90	O
ATOM	10643	N	TRP	D	93	9.209	82.490	64.864	1.00	20.26	N
ATOM	10644	CA	TRP	D	93	7.881	82.941	64.464	1.00	20.26	C
ATOM	10645	C	TRP	D	93	7.577	82.392	63.067	1.00	20.08	C
ATOM	10646	O	TRP	D	93	6.510	81.824	62.829	1.00	20.18	O
ATOM	10647	CB	TRP	D	93	7.831	84.482	64.427	1.00	19.84	C
ATOM	10648	CG	TRP	D	93	6.443	85.058	64.274	1.00	19.03	C
ATOM	10649	CD1	TRP	D	93	5.688	85.647	65.251	1.00	20.27	C
ATOM	10650	CD2	TRP	D	93	5.614	85.021	63.099	1.00	18.49	C
ATOM	10651	NE1	TRP	D	93	4.444	85.968	64.764	1.00	17.11	N
ATOM	10652	CE2	TRP	D	93	4.370	85.595	63.448	1.00	17.21	C
ATOM	10653	CE3	TRP	D	93	5.800	84.555	61.789	1.00	18.58	C
ATOM	10654	CZ2	TRP	D	93	3.316	85.714	62.534	1.00	18.22	C
ATOM	10655	CZ3	TRP	D	93	4.751	84.673	60.881	1.00	16.72	C
ATOM	10656	CH2	TRP	D	93	3.524	85.249	61.261	1.00	18.29	C
ATOM	10657	N	GLN	D	94	8.522	82.576	62.148	1.00	19.80	N
ATOM	10658	CA	GLN	D	94	8.362	82.118	60.772	1.00	18.79	C
ATOM	10659	C	GLN	D	94	8.325	80.594	60.682	1.00	17.79	C
ATOM	10660	O	GLN	D	94	7.616	80.030	59.849	1.00	17.52	O
ATOM	10661	CB	GLN	D	94	9.492	82.668	59.898	1.00	19.40	C
ATOM	10662	CG	GLN	D	94	9.528	84.188	59.817	1.00	20.16	C
ATOM	10663	CD	GLN	D	94	10.553	84.696	58.822	1.00	20.66	C
ATOM	10664	OE1	GLN	D	94	11.649	84.154	58.713	1.00	21.99	O
ATOM	10665	NE2	GLN	D	94	10.205	85.755	58.102	1.00	22.83	N
ATOM	10666	N	VAL	D	95	9.093	79.931	61.536	1.00	16.97	N
ATOM	10667	CA	VAL	D	95	9.115	78.474	61.553	1.00	16.43	C
ATOM	10668	C	VAL	D	95	7.740	77.973	61.995	1.00	17.89	C
ATOM	10669	O	VAL	D	95	7.203	77.027	61.424	1.00	18.23	O
ATOM	10670	CB	VAL	D	95	10.221	77.964	62.501	1.00	15.79	C
ATOM	10671	CG1	VAL	D	95	9.997	76.502	62.865	1.00	13.06	C
ATOM	10672	CG2	VAL	D	95	11.567	78.143	61.830	1.00	10.33	C
ATOM	10673	N	ALA	D	96	7.166	78.626	63.001	1.00	17.14	N
ATOM	10674	CA	ALA	D	96	5.841	78.255	63.490	1.00	18.29	C
ATOM	10675	C	ALA	D	96	4.797	78.507	62.408	1.00	19.19	C
ATOM	10676	O	ALA	D	96	3.887	77.707	62.198	1.00	19.68	O
ATOM	10677	CB	ALA	D	96	5.489	79.078	64.736	1.00	17.63	C
ATOM	10678	N	GLY	D	97	4.940	79.630	61.716	1.00	19.62	N
ATOM	10679	CA	GLY	D	97	3.976	79.983	60.695	1.00	20.07	C



ATOM	10680	C	GLY	D	97	4.036	79.261	59.366	1.00	20.55	C
ATOM	10681	O	GLY	D	97	2.995	79.024	58.753	1.00	20.34	O
ATOM	10682	N	ASP	D	98	5.227	78.886	58.912	1.00	20.66	N
ATOM	10683	CA	ASP	D	98	5.311	78.240	57.609	1.00	20.63	C
ATOM	10684	C	ASP	D	98	6.474	77.262	57.398	1.00	21.30	C
ATOM	10685	O	ASP	D	98	6.762	76.890	56.256	1.00	20.42	O
ATOM	10686	CB	ASP	D	98	5.360	79.342	56.545	1.00	19.81	C
ATOM	10687	CG	ASP	D	98	4.886	78.876	55.190	1.00	19.09	C
ATOM	10688	OD1	ASP	D	98	3.988	78.014	55.130	1.00	19.08	O
ATOM	10689	OD2	ASP	D	98	5.398	79.398	54.180	1.00	23.07	O
ATOM	10690	N	ALA	D	99	7.134	76.828	58.473	1.00	19.97	N
ATOM	10691	CA	ALA	D	99	8.257	75.909	58.305	1.00	18.15	C
ATOM	10692	C	ALA	D	99	8.635	75.036	59.499	1.00	16.86	C
ATOM	10693	O	ALA	D	99	9.813	74.933	59.835	1.00	16.49	O
ATOM	10694	CB	ALA	D	99	9.488	76.691	57.833	1.00	13.03	C
ATOM	10695	N	ASN	D	100	7.664	74.399	60.143	1.00	16.45	N
ATOM	10696	CA	ASN	D	100	8.006	73.536	61.274	1.00	16.52	C
ATOM	10697	C	ASN	D	100	7.680	72.064	60.990	1.00	16.17	C
ATOM	10698	O	ASN	D	100	6.889	71.744	60.093	1.00	15.61	O
ATOM	10699	CB	ASN	D	100	7.315	74.006	62.560	1.00	16.91	C
ATOM	10700	CG	ASN	D	100	5.815	73.878	62.500	1.00	16.63	C
ATOM	10701	OD1	ASN	D	100	5.115	74.827	62.139	1.00	21.19	O
ATOM	10702	ND2	ASN	D	100	5.305	72.699	62.847	1.00	12.80	N
ATOM	10703	N	LEU	D	101	8.286	71.171	61.769	1.00	15.37	N
ATOM	10704	CA	LEU	D	101	8.112	69.736	61.576	1.00	14.73	C
ATOM	10705	C	LEU	D	101	6.725	69.131	61.801	1.00	15.27	C
ATOM	10706	O	LEU	D	101	6.509	67.969	61.466	1.00	15.84	O
ATOM	10707	CB	LEU	D	101	9.161	68.978	62.399	1.00	13.73	C
ATOM	10708	CG	LEU	D	101	10.601	69.360	62.016	1.00	17.28	C
ATOM	10709	CD1	LEU	D	101	11.603	68.717	62.965	1.00	15.71	C
ATOM	10710	CD2	LEU	D	101	10.868	68.937	60.569	1.00	15.10	C
ATOM	10711	N	SER	D	102	5.782	69.890	62.349	1.00	15.22	N
ATOM	10712	CA	SER	D	102	4.435	69.345	62.545	1.00	15.91	C
ATOM	10713	C	SER	D	102	3.657	69.454	61.236	1.00	14.88	C
ATOM	10714	O	SER	D	102	2.647	68.784	61.052	1.00	13.41	O
ATOM	10715	CB	SER	D	102	3.670	70.114	63.624	1.00	16.27	C
ATOM	10716	OG	SER	D	102	3.192	71.353	63.113	1.00	18.86	O
ATOM	10717	N	GLY	D	103	4.141	70.298	60.328	1.00	16.39	N
ATOM	10718	CA	GLY	D	103	3.457	70.497	59.055	1.00	17.72	C
ATOM	10719	C	GLY	D	103	2.265	71.450	59.173	1.00	18.20	C
ATOM	10720	O	GLY	D	103	1.571	71.702	58.190	1.00	18.65	O
ATOM	10721	N	HIS	D	104	2.030	71.981	60.373	1.00	16.75	N
ATOM	10722	CA	HIS	D	104	0.918	72.900	60.604	1.00	16.91	C
ATOM	10723	C	HIS	D	104	1.339	74.363	60.683	1.00	17.64	C
ATOM	10724	O	HIS	D	104	2.510	74.687	60.875	1.00	17.81	O
ATOM	10725	CB	HIS	D	104	0.176	72.541	61.901	1.00	16.36	C
ATOM	10726	CG	HIS	D	104	-0.715	71.345	61.779	1.00	18.41	C
ATOM	10727	ND1	HIS	D	104	-0.501	70.180	62.488	1.00	19.07	N
ATOM	10728	CD2	HIS	D	104	-1.818	71.129	61.023	1.00	16.51	C
ATOM	10729	CE1	HIS	D	104	-1.434	69.298	62.171	1.00	18.75	C
ATOM	10730	NE2	HIS	D	104	-2.245	69.849	61.285	1.00	20.24	N
ATOM	10731	N	THR	D	105	0.357	75.241	60.537	1.00	17.59	N
ATOM	10732	CA	THR	D	105	0.588	76.671	60.620	1.00	17.79	C
ATOM	10733	C	THR	D	105	0.252	77.052	62.051	1.00	18.42	C
ATOM	10734	O	THR	D	105	-0.861	76.795	62.513	1.00	19.93	O
ATOM	10735	CB	THR	D	105	-0.340	77.431	59.656	1.00	18.58	C
ATOM	10736	OG1	THR	D	105	-0.004	77.085	58.308	1.00	17.51	O
ATOM	10737	CG2	THR	D	105	-0.199	78.940	59.844	1.00	17.06	C
ATOM	10738	N	TYR	D	106	1.205	77.654	62.756	1.00	17.32	N
ATOM	10739	CA	TYR	D	106	0.976	78.036	64.149	1.00	18.32	C
ATOM	10740	C	TYR	D	106	1.314	79.487	64.494	1.00	18.45	C
ATOM	10741	O	TYR	D	106	2.164	80.112	63.857	1.00	17.64	O
ATOM	10742	CB	TYR	D	106	1.827	77.178	65.091	1.00	16.74	C
ATOM	10743	CG	TYR	D	106	1.498	75.709	65.180	1.00	18.40	C
ATOM	10744	CD1	TYR	D	106	0.203	75.272	65.456	1.00	17.54	C
ATOM	10745	CD2	TYR	D	106	2.514	74.752	65.090	1.00	19.23	C
ATOM	10746	CE1	TYR	D	106	-0.073	73.918	65.652	1.00	19.33	C
ATOM	10747	CE2	TYR	D	106	2.251	73.393	65.286	1.00	17.91	C
ATOM	10748	CZ	TYR	D	106	0.957	72.982	65.568	1.00	18.07	C
ATOM	10749	OH	TYR	D	106	0.700	71.642	65.768	1.00	14.35	O
ATOM	10750	N	PRO	D	107	0.632	80.047	65.507	1.00	18.27	N
ATOM	10751	CA	PRO	D	107	0.952	81.424	65.893	1.00	19.56	C
ATOM	10752	C	PRO	D	107	2.256	81.246	66.684	1.00	19.80	C
ATOM	10753	O	PRO	D	107	2.660	80.117	66.935	1.00	20.15	O
ATOM	10754	CB	PRO	D	107	-0.234	81.833	66.766	1.00	17.95	C
ATOM	10755	CG	PRO	D	107	-0.730	80.525	67.318	1.00	19.29	C
ATOM	10756	CD	PRO	D	107	-0.623	79.599	66.135	1.00	17.40	C
ATOM	10757	N	ASP	D	108	2.902	82.330	67.088	1.00	21.65	N
ATOM	10758	CA	ASP	D	108	4.179	82.235	67.798	1.00	22.69	C
ATOM	10759	C	ASP	D	108	4.078	81.921	69.296	1.00	23.38	C



ATOM	10760	O	ASP	D	108	4.283	82.797	70.142	1.00	23.28	O
ATOM	10761	CB	ASP	D	108	4.952	83.536	67.581	1.00	23.71	C
ATOM	10762	CG	ASP	D	108	6.391	83.431	68.002	1.00	25.64	C
ATOM	10763	OD1	ASP	D	108	6.895	82.289	68.093	1.00	27.23	O
ATOM	10764	OD2	ASP	D	108	7.019	84.490	68.226	1.00	24.17	O
ATOM	10765	N	GLN	D	109	3.800	80.660	69.623	1.00	21.99	N
ATOM	10766	CA	GLN	D	109	3.645	80.274	71.020	1.00	23.46	C
ATOM	10767	C	GLN	D	109	4.310	78.961	71.442	1.00	22.39	C
ATOM	10768	O	GLN	D	109	3.846	78.302	72.372	1.00	21.84	O
ATOM	10769	CB	GLN	D	109	2.149	80.228	71.354	1.00	24.21	C
ATOM	10770	CG	GLN	D	109	1.427	81.542	71.050	1.00	24.96	C
ATOM	10771	CD	GLN	D	109	-0.050	81.497	71.390	1.00	26.96	C
ATOM	10772	OE1	GLN	D	109	-0.433	81.199	72.523	1.00	27.00	O
ATOM	10773	NE2	GLN	D	109	-0.890	81.802	70.407	1.00	29.24	N
ATOM	10774	N	SER	D	110	5.398	78.596	70.770	1.00	21.21	N
ATOM	10775	CA	SER	D	110	6.126	77.365	71.076	1.00	20.77	C
ATOM	10776	C	SER	D	110	5.245	76.143	70.915	1.00	19.66	C
ATOM	10777	O	SER	D	110	5.279	75.243	71.749	1.00	20.29	O
ATOM	10778	CB	SER	D	110	6.676	77.390	72.507	1.00	20.35	C
ATOM	10779	OG	SER	D	110	7.805	78.233	72.616	1.00	22.26	O
ATOM	10780	N	LEU	D	111	4.466	76.104	69.839	1.00	19.49	N
ATOM	10781	CA	LEU	D	111	3.564	74.983	69.591	1.00	17.73	C
ATOM	10782	C	LEU	D	111	4.176	73.860	68.751	1.00	17.97	C
ATOM	10783	O	LEU	D	111	3.719	72.719	68.828	1.00	19.21	O
ATOM	10784	CB	LEU	D	111	2.277	75.482	68.905	1.00	16.64	C
ATOM	10785	CG	LEU	D	111	1.345	76.401	69.701	1.00	16.31	C
ATOM	10786	CD1	LEU	D	111	0.234	76.916	68.808	1.00	17.50	C
ATOM	10787	CD2	LEU	D	111	0.761	75.645	70.878	1.00	15.54	C
ATOM	10788	N	TYR	D	112	5.202	74.184	67.961	1.00	17.18	N
ATOM	10789	CA	TYR	D	112	5.861	73.216	67.079	1.00	17.36	C
ATOM	10790	C	TYR	D	112	6.922	72.328	67.743	1.00	16.48	C
ATOM	10791	O	TYR	D	112	7.409	72.632	68.832	1.00	16.55	O
ATOM	10792	CB	TYR	D	112	6.481	73.949	65.873	1.00	16.74	C
ATOM	10793	CG	TYR	D	112	7.548	74.967	66.227	1.00	18.37	C
ATOM	10794	CD1	TYR	D	112	8.805	74.562	66.668	1.00	17.05	C
ATOM	10795	CD2	TYR	D	112	7.306	76.340	66.102	1.00	18.31	C
ATOM	10796	CE1	TYR	D	112	9.798	75.487	66.971	1.00	16.92	C
ATOM	10797	CE2	TYR	D	112	8.298	77.280	66.410	1.00	17.40	C
ATOM	10798	CZ	TYR	D	112	9.538	76.841	66.840	1.00	17.56	C
ATOM	10799	OH	TYR	D	112	10.529	77.743	67.128	1.00	18.38	O
ATOM	10800	N	PRO	D	113	7.299	71.218	67.081	1.00	16.02	N
ATOM	10801	CA	PRO	D	113	8.306	70.300	67.630	1.00	16.49	C
ATOM	10802	C	PRO	D	113	9.662	70.984	67.849	1.00	17.94	C
ATOM	10803	O	PRO	D	113	10.180	71.677	66.966	1.00	16.66	O
ATOM	10804	CB	PRO	D	113	8.365	69.185	66.586	1.00	16.41	C
ATOM	10805	CG	PRO	D	113	6.981	69.214	65.978	1.00	16.92	C
ATOM	10806	CD	PRO	D	113	6.760	70.698	65.813	1.00	14.68	C
ATOM	10807	N	ALA	D	114	10.216	70.767	69.039	1.00	18.02	N
ATOM	10808	CA	ALA	D	114	11.479	71.360	69.480	1.00	16.83	C
ATOM	10809	C	ALA	D	114	12.674	71.291	68.545	1.00	15.77	C
ATOM	10810	O	ALA	D	114	13.572	72.116	68.649	1.00	15.54	O
ATOM	10811	CB	ALA	D	114	11.868	70.776	70.840	1.00	16.24	C
ATOM	10812	N	ASN	D	115	12.711	70.315	67.647	1.00	15.78	N
ATOM	10813	CA	ASN	D	115	13.846	70.213	66.734	1.00	16.72	C
ATOM	10814	C	ASN	D	115	13.576	70.868	65.385	1.00	15.64	C
ATOM	10815	O	ASN	D	115	14.304	70.638	64.426	1.00	16.32	O
ATOM	10816	CB	ASN	D	115	14.250	68.738	66.544	1.00	17.60	C
ATOM	10817	CG	ASN	D	115	13.139	67.896	65.953	1.00	18.00	C
ATOM	10818	OD1	ASN	D	115	11.968	68.087	66.274	1.00	17.98	O
ATOM	10819	ND2	ASN	D	115	13.504	66.946	65.098	1.00	17.01	N
ATOM	10820	N	SER	D	116	12.542	71.703	65.321	1.00	16.84	N
ATOM	10821	CA	SER	D	116	12.183	72.379	64.075	1.00	15.77	C
ATOM	10822	C	SER	D	116	13.219	73.386	63.610	1.00	15.99	C
ATOM	10823	O	SER	D	116	13.643	73.350	62.457	1.00	17.20	O
ATOM	10824	CB	SER	D	116	10.828	73.078	64.208	1.00	13.97	C
ATOM	10825	OG	SER	D	116	9.770	72.140	64.166	1.00	17.42	O
ATOM	10826	N	VAL	D	117	13.623	74.295	64.494	1.00	16.56	N
ATOM	10827	CA	VAL	D	117	14.608	75.300	64.115	1.00	16.01	C
ATOM	10828	C	VAL	D	117	15.932	74.653	63.722	1.00	16.26	C
ATOM	10829	O	VAL	D	117	16.545	75.054	62.739	1.00	18.50	O
ATOM	10830	CB	VAL	D	117	14.829	76.332	65.238	1.00	16.22	C
ATOM	10831	CG1	VAL	D	117	15.957	77.288	64.855	1.00	15.00	C
ATOM	10832	CG2	VAL	D	117	13.549	77.119	65.462	1.00	17.14	C
ATOM	10833	N	PRO	D	118	16.397	73.648	64.487	1.00	16.02	N
ATOM	10834	CA	PRO	D	118	17.663	72.987	64.137	1.00	17.62	C
ATOM	10835	C	PRO	D	118	17.634	72.460	62.701	1.00	18.86	C
ATOM	10836	O	PRO	D	118	18.616	72.578	61.956	1.00	18.51	O
ATOM	10837	CB	PRO	D	118	17.760	71.868	65.164	1.00	17.66	C
ATOM	10838	CG	PRO	D	118	17.163	72.523	66.387	1.00	19.05	C
ATOM	10839	CD	PRO	D	118	15.928	73.211	65.815	1.00	16.01	C



ATOM	10840	N	GLN	D	119	16.500	71.882	62.314	1.00	19.00	N
ATOM	10841	CA	GLN	D	119	16.340	71.359	60.960	1.00	20.38	C
ATOM	10842	C	GLN	D	119	16.470	72.481	59.932	1.00	18.29	C
ATOM	10843	O	GLN	D	119	17.078	72.298	58.875	1.00	16.35	O
ATOM	10844	CB	GLN	D	119	14.976	70.683	60.804	1.00	23.48	C
ATOM	10845	CG	GLN	D	119	14.915	69.267	61.352	1.00	29.15	C
ATOM	10846	CD	GLN	D	119	15.835	68.320	60.600	1.00	32.74	C
ATOM	10847	OE1	GLN	D	119	17.021	68.204	60.918	1.00	34.07	O
ATOM	10848	NE2	GLN	D	119	15.293	67.651	59.582	1.00	33.26	N
ATOM	10849	N	VAL	D	120	15.900	73.644	60.239	1.00	16.98	N
ATOM	10850	CA	VAL	D	120	15.976	74.773	59.311	1.00	17.21	C
ATOM	10851	C	VAL	D	120	17.400	75.351	59.254	1.00	16.57	C
ATOM	10852	O	VAL	D	120	17.837	75.826	58.209	1.00	17.50	O
ATOM	10853	CB	VAL	D	120	14.951	75.871	59.676	1.00	14.56	C
ATOM	10854	CG1	VAL	D	120	15.130	77.077	58.773	1.00	15.82	C
ATOM	10855	CG2	VAL	D	120	13.528	75.316	59.513	1.00	13.93	C
ATOM	10856	N	VAL	D	121	18.122	75.305	60.369	1.00	16.24	N
ATOM	10857	CA	VAL	D	121	19.499	75.783	60.381	1.00	14.82	C
ATOM	10858	C	VAL	D	121	20.281	74.870	59.425	1.00	16.65	C
ATOM	10859	O	VAL	D	121	21.035	75.346	58.577	1.00	16.29	O
ATOM	10860	CB	VAL	D	121	20.110	75.695	61.797	1.00	16.32	C
ATOM	10861	CG1	VAL	D	121	21.615	75.994	61.753	1.00	14.53	C
ATOM	10862	CG2	VAL	D	121	19.408	76.678	62.721	1.00	15.37	C
ATOM	10863	N	ARG	D	122	20.083	73.557	59.558	1.00	16.20	N
ATOM	10864	CA	ARG	D	122	20.755	72.583	58.695	1.00	17.24	C
ATOM	10865	C	ARG	D	122	20.384	72.828	57.240	1.00	17.18	C
ATOM	10866	O	ARG	D	122	21.233	72.761	56.348	1.00	18.13	O
ATOM	10867	CB	ARG	D	122	20.351	71.152	59.078	1.00	16.40	C
ATOM	10868	CG	ARG	D	122	21.013	70.053	58.246	1.00	16.85	C
ATOM	10869	CD	ARG	D	122	22.536	69.976	58.456	1.00	16.81	C
ATOM	10870	NE	ARG	D	122	23.286	70.704	57.432	1.00	17.64	N
ATOM	10871	CZ	ARG	D	122	24.616	70.772	57.378	1.00	17.24	C
ATOM	10872	NH1	ARG	D	122	25.354	70.162	58.295	1.00	15.63	N
ATOM	10873	NH2	ARG	D	122	25.211	71.437	56.393	1.00	14.74	N
ATOM	10874	N	ARG	D	123	19.107	73.099	57.002	1.00	16.20	N
ATOM	10875	CA	ARG	D	123	18.636	73.357	55.648	1.00	16.72	C
ATOM	10876	C	ARG	D	123	19.309	74.603	55.074	1.00	17.49	C
ATOM	10877	O	ARG	D	123	19.818	74.591	53.952	1.00	18.44	O
ATOM	10878	CB	ARG	D	123	17.115	73.526	55.647	1.00	17.27	C
ATOM	10879	CG	ARG	D	123	16.552	74.129	54.376	1.00	18.32	C
ATOM	10880	CD	ARG	D	123	17.036	73.394	53.132	1.00	19.43	C
ATOM	10881	NE	ARG	D	123	16.698	74.144	51.923	1.00	19.45	N
ATOM	10882	CZ	ARG	D	123	17.393	74.095	50.792	1.00	16.21	C
ATOM	10883	NH1	ARG	D	123	18.472	73.333	50.704	1.00	14.92	N
ATOM	10884	NH2	ARG	D	123	17.012	74.819	49.748	1.00	17.44	N
ATOM	10885	N	ILE	D	124	19.311	75.679	55.852	1.00	17.61	N
ATOM	10886	CA	ILE	D	124	19.932	76.911	55.409	1.00	18.44	C
ATOM	10887	C	ILE	D	124	21.421	76.713	55.102	1.00	18.28	C
ATOM	10888	O	ILE	D	124	21.899	77.205	54.087	1.00	21.36	O
ATOM	10889	CB	ILE	D	124	19.714	78.042	56.456	1.00	18.77	C
ATOM	10890	CG1	ILE	D	124	18.242	78.468	56.425	1.00	18.76	C
ATOM	10891	CG2	ILE	D	124	20.626	79.239	56.161	1.00	16.22	C
ATOM	10892	CD1	ILE	D	124	17.885	79.546	57.416	1.00	22.91	C
ATOM	10893	N	ASN	D	125	22.153	75.993	55.955	1.00	18.26	N
ATOM	10894	CA	ASN	D	125	23.575	75.751	55.692	1.00	18.93	C
ATOM	10895	C	ASN	D	125	23.768	74.884	54.445	1.00	19.68	C
ATOM	10896	O	ASN	D	125	24.734	75.063	53.706	1.00	20.48	O
ATOM	10897	CB	ASN	D	125	24.267	75.084	56.890	1.00	18.44	C
ATOM	10898	CG	ASN	D	125	24.778	76.093	57.911	1.00	20.01	C
ATOM	10899	OD1	ASN	D	125	25.237	77.182	57.551	1.00	16.78	O
ATOM	10900	ND2	ASN	D	125	24.717	75.727	59.190	1.00	18.42	N
ATOM	10901	N	ASN	D	126	22.860	73.940	54.206	1.00	19.57	N
ATOM	10902	CA	ASN	D	126	22.983	73.112	53.012	1.00	19.33	C
ATOM	10903	C	ASN	D	126	22.788	73.975	51.765	1.00	19.53	C
ATOM	10904	O	ASN	D	126	23.522	73.833	50.784	1.00	19.58	O
ATOM	10905	CB	ASN	D	126	21.955	71.978	53.003	1.00	17.86	C
ATOM	10906	CG	ASN	D	126	22.227	70.926	54.068	1.00	19.79	C
ATOM	10907	OD1	ASN	D	126	23.377	70.678	54.441	1.00	17.81	O
ATOM	10908	ND2	ASN	D	126	21.164	70.284	54.549	1.00	18.00	N
ATOM	10909	N	ALA	D	127	21.807	74.873	51.805	1.00	18.03	N
ATOM	10910	CA	ALA	D	127	21.534	75.740	50.659	1.00	19.15	C
ATOM	10911	C	ALA	D	127	22.731	76.635	50.355	1.00	18.40	C
ATOM	10912	O	ALA	D	127	23.116	76.805	49.195	1.00	18.81	O
ATOM	10913	CB	ALA	D	127	20.299	76.587	50.918	1.00	17.05	C
ATOM	10914	N	LEU	D	128	23.315	77.200	51.407	1.00	18.89	N
ATOM	10915	CA	LEU	D	128	24.485	78.066	51.275	1.00	19.27	C
ATOM	10916	C	LEU	D	128	25.689	77.277	50.762	1.00	19.70	C
ATOM	10917	O	LEU	D	128	26.502	77.797	49.993	1.00	18.88	O
ATOM	10918	CB	LEU	D	128	24.828	78.699	52.630	1.00	18.83	C
ATOM	10919	CG	LEU	D	128	23.775	79.622	53.237	1.00	16.61	C



ATOM	10920	CD1	LEU	D	128	24.215	80.043	54.631	1.00	17.21	C
ATOM	10921	CD2	LEU	D	128	23.578	80.830	52.338	1.00	16.67	C
ATOM	10922	N	GLN	D	129	25.810	76.023	51.191	1.00	20.09	N
ATOM	10923	CA	GLN	D	129	26.920	75.192	50.741	1.00	19.94	C
ATOM	10924	C	GLN	D	129	26.799	74.890	49.258	1.00	21.09	C
ATOM	10925	O	GLN	D	129	27.812	74.778	48.557	1.00	21.55	O
ATOM	10926	CB	GLN	D	129	26.971	73.879	51.516	1.00	20.46	C
ATOM	10927	CG	GLN	D	129	27.553	74.009	52.912	1.00	24.01	C
ATOM	10928	CD	GLN	D	129	27.485	72.709	53.681	1.00	23.15	C
ATOM	10929	OE1	GLN	D	129	26.399	72.165	53.895	1.00	25.75	O
ATOM	10930	NE2	GLN	D	129	28.641	72.202	54.104	1.00	19.18	N
ATOM	10931	N	ARG	D	130	25.566	74.745	48.777	1.00	20.37	N
ATOM	10932	CA	ARG	D	130	25.365	74.459	47.361	1.00	20.56	C
ATOM	10933	C	ARG	D	130	25.790	75.695	46.573	1.00	20.91	C
ATOM	10934	O	ARG	D	130	26.528	75.592	45.597	1.00	23.00	O
ATOM	10935	CB	ARG	D	130	23.895	74.128	47.059	1.00	18.32	C
ATOM	10936	CG	ARG	D	130	23.658	73.615	45.626	1.00	18.58	C
ATOM	10937	CD	ARG	D	130	24.274	72.223	45.412	1.00	17.07	C
ATOM	10938	NE	ARG	D	130	23.473	71.175	46.041	1.00	18.16	N
ATOM	10939	CZ	ARG	D	130	23.947	70.003	46.458	1.00	18.89	C
ATOM	10940	NH1	ARG	D	130	25.233	69.708	46.326	1.00	20.25	N
ATOM	10941	NH2	ARG	D	130	23.129	69.116	47.005	1.00	15.60	N
ATOM	10942	N	ALA	D	131	25.331	76.862	47.012	1.00	21.21	N
ATOM	10943	CA	ALA	D	131	25.671	78.111	46.334	1.00	22.68	C
ATOM	10944	C	ALA	D	131	27.179	78.302	46.303	1.00	22.69	C
ATOM	10945	O	ALA	D	131	27.726	78.840	45.342	1.00	24.51	O
ATOM	10946	CB	ALA	D	131	25.004	79.293	47.036	1.00	22.29	C
ATOM	10947	N	ASP	D	132	27.844	77.856	47.363	1.00	23.42	N
ATOM	10948	CA	ASP	D	132	29.293	77.956	47.469	1.00	22.48	C
ATOM	10949	C	ASP	D	132	29.916	77.018	46.440	1.00	23.52	C
ATOM	10950	O	ASP	D	132	30.855	77.384	45.728	1.00	23.88	O
ATOM	10951	CB	ASP	D	132	29.743	77.564	48.879	1.00	21.68	C
ATOM	10952	CG	ASP	D	132	31.248	77.660	49.067	1.00	23.95	C
ATOM	10953	OD1	ASP	D	132	31.807	78.767	48.916	1.00	23.82	O
ATOM	10954	OD2	ASP	D	132	31.876	76.625	49.377	1.00	26.43	O
ATOM	10955	N	GLN	D	133	29.384	75.804	46.367	1.00	23.84	N
ATOM	10956	CA	GLN	D	133	29.874	74.810	45.423	1.00	23.04	C
ATOM	10957	C	GLN	D	133	29.707	75.300	43.987	1.00	23.13	C
ATOM	10958	O	GLN	D	133	30.640	75.235	43.188	1.00	22.86	O
ATOM	10959	CB	GLN	D	133	29.110	73.498	45.608	1.00	22.78	C
ATOM	10960	CG	GLN	D	133	29.440	72.783	46.891	1.00	20.57	C
ATOM	10961	CD	GLN	D	133	28.313	71.893	47.376	1.00	22.22	C
ATOM	10962	OE1	GLN	D	133	28.424	71.261	48.425	1.00	22.61	O
ATOM	10963	NE2	GLN	D	133	27.219	71.843	46.622	1.00	23.17	N
ATOM	10964	N	ILE	D	134	28.508	75.781	43.671	1.00	23.67	N
ATOM	10965	CA	ILE	D	134	28.201	76.278	42.340	1.00	24.50	C
ATOM	10966	C	ILE	D	134	29.113	77.448	42.001	1.00	27.09	C
ATOM	10967	O	ILE	D	134	29.660	77.511	40.902	1.00	27.25	O
ATOM	10968	CB	ILE	D	134	26.735	76.770	42.239	1.00	25.13	C
ATOM	10969	CG1	ILE	D	134	25.769	75.611	42.483	1.00	22.85	C
ATOM	10970	CG2	ILE	D	134	26.480	77.396	40.858	1.00	21.99	C
ATOM	10971	CD1	ILE	D	134	24.323	76.057	42.567	1.00	19.89	C
ATOM	10972	N	ALA	D	135	29.266	78.377	42.943	1.00	28.64	N
ATOM	10973	CA	ALA	D	135	30.111	79.546	42.719	1.00	30.22	C
ATOM	10974	C	ALA	D	135	31.538	79.139	42.374	1.00	31.16	C
ATOM	10975	O	ALA	D	135	32.166	79.745	41.504	1.00	32.35	O
ATOM	10976	CB	ALA	D	135	30.109	80.451	43.949	1.00	29.81	C
ATOM	10977	N	LYS	D	136	32.043	78.108	43.045	1.00	30.42	N
ATOM	10978	CA	LYS	D	136	33.401	77.644	42.799	1.00	30.69	C
ATOM	10979	C	LYS	D	136	33.589	77.135	41.371	1.00	32.02	C
ATOM	10980	O	LYS	D	136	34.545	77.513	40.701	1.00	32.28	O
ATOM	10981	CB	LYS	D	136	33.776	76.545	43.794	1.00	30.19	C
ATOM	10982	CG	LYS	D	136	35.256	76.181	43.781	1.00	31.51	C
ATOM	10983	CD	LYS	D	136	35.593	75.120	44.831	1.00	31.52	C
ATOM	10984	CE	LYS	D	136	37.096	74.851	44.901	1.00	30.67	C
ATOM	10985	NZ	LYS	D	136	37.447	73.893	45.993	1.00	31.51	N
ATOM	10986	N	ILE	D	137	32.681	76.286	40.894	1.00	33.15	N
ATOM	10987	CA	ILE	D	137	32.816	75.754	39.539	1.00	32.19	C
ATOM	10988	C	ILE	D	137	32.507	76.802	38.473	1.00	33.14	C
ATOM	10989	O	ILE	D	137	32.899	76.651	37.315	1.00	32.98	O
ATOM	10990	CB	ILE	D	137	31.900	74.532	39.296	1.00	33.05	C
ATOM	10991	CG1	ILE	D	137	30.429	74.947	39.388	1.00	33.22	C
ATOM	10992	CG2	ILE	D	137	32.223	73.425	40.295	1.00	31.77	C
ATOM	10993	CD1	ILE	D	137	29.467	73.851	38.961	1.00	33.13	C
ATOM	10994	N	GLU	D	138	31.799	77.860	38.852	1.00	31.51	N
ATOM	10995	CA	GLU	D	138	31.481	78.903	37.891	1.00	32.41	C
ATOM	10996	C	GLU	D	138	32.542	79.998	37.924	1.00	33.13	C
ATOM	10997	O	GLU	D	138	32.526	80.911	37.101	1.00	33.61	O
ATOM	10998	CB	GLU	D	138	30.104	79.509	38.176	1.00	31.60	C
ATOM	10999	CG	GLU	D	138	28.962	78.512	38.082	1.00	32.28	C



ATOM	11000	CD	GLU	D	138	27.599	79.179	38.047	1.00	33.34	C
ATOM	11001	OE1	GLU	D	138	27.346	80.089	38.869	1.00	31.66	O
ATOM	11002	OE2	GLU	D	138	26.774	78.782	37.193	1.00	34.63	O
ATOM	11003	N	GLY	D	139	33.472	79.890	38.867	1.00	33.57	N
ATOM	11004	CA	GLY	D	139	34.514	80.891	38.986	1.00	34.33	C
ATOM	11005	C	GLY	D	139	33.909	82.210	39.422	1.00	35.65	C
ATOM	11006	O	GLY	D	139	34.409	83.284	39.087	1.00	36.53	O
ATOM	11007	N	ASP	D	140	32.817	82.128	40.174	1.00	36.01	N
ATOM	11008	CA	ASP	D	140	32.130	83.315	40.658	1.00	35.64	C
ATOM	11009	C	ASP	D	140	32.625	83.744	42.039	1.00	36.40	C
ATOM	11010	O	ASP	D	140	32.335	83.097	43.049	1.00	35.18	O
ATOM	11011	CB	ASP	D	140	30.623	83.055	40.688	1.00	36.24	C
ATOM	11012	CG	ASP	D	140	29.848	84.186	41.322	1.00	36.13	C
ATOM	11013	OD1	ASP	D	140	30.430	85.273	41.507	1.00	37.52	O
ATOM	11014	OD2	ASP	D	140	28.653	83.993	41.627	1.00	36.53	O
ATOM	11015	N	THR	D	141	33.376	84.844	42.068	1.00	36.60	N
ATOM	11016	CA	THR	D	141	33.923	85.384	43.307	1.00	37.34	C
ATOM	11017	C	THR	D	141	33.069	86.531	43.833	1.00	37.02	C
ATOM	11018	O	THR	D	141	33.494	87.291	44.706	1.00	37.21	O
ATOM	11019	CB	THR	D	141	35.365	85.898	43.107	1.00	39.09	C
ATOM	11020	OG1	THR	D	141	35.391	86.855	42.038	1.00	41.41	O
ATOM	11021	CG2	THR	D	141	36.301	84.740	42.781	1.00	38.80	C
ATOM	11022	N	SER	D	142	31.859	86.643	43.293	1.00	36.90	N
ATOM	11023	CA	SER	D	142	30.912	87.682	43.687	1.00	36.42	C
ATOM	11024	C	SER	D	142	30.765	87.762	45.208	1.00	35.35	C
ATOM	11025	O	SER	D	142	30.730	88.847	45.788	1.00	33.31	O
ATOM	11026	CB	SER	D	142	29.550	87.397	43.042	1.00	37.03	C
ATOM	11027	OG	SER	D	142	28.542	88.270	43.525	1.00	42.05	O
ATOM	11028	N	VAL	D	143	30.687	86.600	45.845	1.00	34.73	N
ATOM	11029	CA	VAL	D	143	30.536	86.523	47.291	1.00	33.24	C
ATOM	11030	C	VAL	D	143	31.796	85.972	47.946	1.00	33.13	C
ATOM	11031	O	VAL	D	143	32.285	84.902	47.589	1.00	34.10	O
ATOM	11032	CB	VAL	D	143	29.343	85.628	47.666	1.00	32.86	C
ATOM	11033	CG1	VAL	D	143	29.211	85.539	49.181	1.00	34.03	C
ATOM	11034	CG2	VAL	D	143	28.071	86.183	47.047	1.00	32.84	C
ATOM	11035	N	GLU	D	144	32.316	86.711	48.912	1.00	33.32	N
ATOM	11036	CA	GLU	D	144	33.521	86.306	49.618	1.00	34.94	C
ATOM	11037	C	GLU	D	144	33.232	85.124	50.535	1.00	32.89	C
ATOM	11038	O	GLU	D	144	33.963	84.134	50.536	1.00	33.82	O
ATOM	11039	CB	GLU	D	144	34.066	87.478	50.440	1.00	38.62	C
ATOM	11040	CG	GLU	D	144	33.179	87.866	51.613	1.00	45.66	C
ATOM	11041	CD	GLU	D	144	31.749	88.187	51.197	1.00	49.12	C
ATOM	11042	OE1	GLU	D	144	30.831	87.972	52.025	1.00	50.55	O
ATOM	11043	OE2	GLU	D	144	31.545	88.662	50.053	1.00	49.60	O
ATOM	11044	N	ASN	D	145	32.156	85.223	51.309	1.00	30.34	N
ATOM	11045	CA	ASN	D	145	31.792	84.159	52.237	1.00	27.39	C
ATOM	11046	C	ASN	D	145	30.336	83.737	52.091	1.00	24.79	C
ATOM	11047	O	ASN	D	145	29.439	84.417	52.589	1.00	23.15	O
ATOM	11048	CB	ASN	D	145	32.030	84.622	53.678	1.00	27.38	C
ATOM	11049	CG	ASN	D	145	31.624	83.580	54.701	1.00	27.26	C
ATOM	11050	OD1	ASN	D	145	30.985	83.899	55.708	1.00	28.08	O
ATOM	11051	ND2	ASN	D	145	32.002	82.328	54.457	1.00	26.50	N
ATOM	11052	N	TRP	D	146	30.101	82.611	51.427	1.00	22.17	N
ATOM	11053	CA	TRP	D	146	28.736	82.120	51.256	1.00	22.29	C
ATOM	11054	C	TRP	D	146	28.167	81.589	52.566	1.00	22.68	C
ATOM	11055	O	TRP	D	146	26.956	81.636	52.791	1.00	22.79	O
ATOM	11056	CB	TRP	D	146	28.687	81.012	50.206	1.00	21.54	C
ATOM	11057	CG	TRP	D	146	28.628	81.542	48.841	1.00	19.82	C
ATOM	11058	CD1	TRP	D	146	29.659	81.655	47.958	1.00	18.90	C
ATOM	11059	CD2	TRP	D	146	27.477	82.098	48.199	1.00	20.74	C
ATOM	11060	NE1	TRP	D	146	29.221	82.252	46.798	1.00	22.38	N
ATOM	11061	CE2	TRP	D	146	27.885	82.535	46.919	1.00	20.69	C
ATOM	11062	CE3	TRP	D	146	26.141	82.271	48.582	1.00	18.52	C
ATOM	11063	CZ2	TRP	D	146	27.002	83.138	46.017	1.00	20.83	C
ATOM	11064	CZ3	TRP	D	146	25.262	82.871	47.687	1.00	20.24	C
ATOM	11065	CH2	TRP	D	146	25.697	83.298	46.419	1.00	20.99	C
ATOM	11066	N	LEU	D	147	29.050	81.083	53.422	1.00	21.09	N
ATOM	11067	CA	LEU	D	147	28.647	80.539	54.706	1.00	21.64	C
ATOM	11068	C	LEU	D	147	28.527	81.613	55.784	1.00	21.99	C
ATOM	11069	O	LEU	D	147	29.323	81.668	56.724	1.00	20.11	O
ATOM	11070	CB	LEU	D	147	29.635	79.454	55.134	1.00	22.62	C
ATOM	11071	CG	LEU	D	147	29.463	78.181	54.302	1.00	25.08	C
ATOM	11072	CD1	LEU	D	147	30.636	77.246	54.504	1.00	27.89	C
ATOM	11073	CD2	LEU	D	147	28.156	77.505	54.710	1.00	27.47	C
ATOM	11074	N	ALA	D	148	27.517	82.465	55.630	1.00	22.50	N
ATOM	11075	CA	ALA	D	148	27.246	83.542	56.576	1.00	22.16	C
ATOM	11076	C	ALA	D	148	26.738	82.942	57.883	1.00	23.08	C
ATOM	11077	O	ALA	D	148	25.937	82.008	57.876	1.00	24.09	O
ATOM	11078	CB	ALA	D	148	26.202	84.489	55.999	1.00	21.93	C
ATOM	11079	N	PRO	D	149	27.199	83.471	59.026	1.00	23.28	N



ATOM	11080	CA	PRO	D	149	26.755	82.946	60.321	1.00	21.62	C
ATOM	11081	C	PRO	D	149	25.238	83.012	60.483	1.00	21.45	C
ATOM	11082	O	PRO	D	149	24.588	83.930	59.988	1.00	22.62	O
ATOM	11083	CB	PRO	D	149	27.496	83.826	61.323	1.00	22.41	C
ATOM	11084	CG	PRO	D	149	27.646	85.135	60.572	1.00	23.29	C
ATOM	11085	CD	PRO	D	149	28.045	84.666	59.199	1.00	23.16	C
ATOM	11086	N	ILE	D	150	24.681	82.030	61.184	1.00	20.28	N
ATOM	11087	CA	ILE	D	150	23.244	81.965	61.399	1.00	18.73	C
ATOM	11088	C	ILE	D	150	22.890	82.189	62.860	1.00	17.49	C
ATOM	11089	O	ILE	D	150	23.438	81.544	63.746	1.00	19.41	O
ATOM	11090	CB	ILE	D	150	22.686	80.581	60.988	1.00	18.50	C
ATOM	11091	CG1	ILE	D	150	23.076	80.269	59.541	1.00	18.73	C
ATOM	11092	CG2	ILE	D	150	21.172	80.554	61.177	1.00	17.77	C
ATOM	11093	CD1	ILE	D	150	22.756	78.842	59.102	1.00	17.28	C
ATOM	11094	N	VAL	D	151	21.970	83.105	63.111	1.00	18.29	N
ATOM	11095	CA	VAL	D	151	21.528	83.361	64.474	1.00	18.82	C
ATOM	11096	C	VAL	D	151	20.125	82.787	64.574	1.00	17.86	C
ATOM	11097	O	VAL	D	151	19.200	83.283	63.933	1.00	16.85	O
ATOM	11098	CB	VAL	D	151	21.497	84.868	64.788	1.00	18.78	C
ATOM	11099	CG1	VAL	D	151	20.872	85.100	66.165	1.00	16.68	C
ATOM	11100	CG2	VAL	D	151	22.914	85.423	64.749	1.00	17.98	C
ATOM	11101	N	ALA	D	152	19.975	81.744	65.384	1.00	18.01	N
ATOM	11102	CA	ALA	D	152	18.690	81.073	65.529	1.00	17.50	C
ATOM	11103	C	ALA	D	152	17.949	81.324	66.828	1.00	15.86	C
ATOM	11104	O	ALA	D	152	18.548	81.562	67.877	1.00	13.82	O
ATOM	11105	CB	ALA	D	152	18.867	79.576	65.324	1.00	17.30	C
ATOM	11106	N	ASP	D	153	16.629	81.229	66.721	1.00	15.68	N
ATOM	11107	CA	ASP	D	153	15.691	81.437	67.811	1.00	17.62	C
ATOM	11108	C	ASP	D	153	15.566	80.168	68.663	1.00	18.05	C
ATOM	11109	O	ASP	D	153	15.094	79.141	68.185	1.00	17.88	O
ATOM	11110	CB	ASP	D	153	14.328	81.796	67.209	1.00	18.94	C
ATOM	11111	CG	ASP	D	153	13.324	82.271	68.241	1.00	18.77	C
ATOM	11112	OD1	ASP	D	153	13.523	82.018	69.450	1.00	20.06	O
ATOM	11113	OD2	ASP	D	153	12.323	82.892	67.831	1.00	18.07	O
ATOM	11114	N	GLY	D	154	15.997	80.245	69.916	1.00	17.87	N
ATOM	11115	CA	GLY	D	154	15.902	79.101	70.802	1.00	19.14	C
ATOM	11116	C	GLY	D	154	14.676	79.269	71.674	1.00	21.63	C
ATOM	11117	O	GLY	D	154	14.388	78.441	72.544	1.00	22.40	O
ATOM	11118	N	GLU	D	155	13.955	80.361	71.423	1.00	21.24	N
ATOM	11119	CA	GLU	D	155	12.741	80.706	72.150	1.00	23.41	C
ATOM	11120	C	GLU	D	155	12.886	80.613	73.667	1.00	23.73	C
ATOM	11121	O	GLU	D	155	13.808	81.193	74.241	1.00	23.87	O
ATOM	11122	CB	GLU	D	155	11.576	79.837	71.658	1.00	24.12	C
ATOM	11123	CG	GLU	D	155	11.218	80.127	70.201	1.00	26.56	C
ATOM	11124	CD	GLU	D	155	9.921	79.498	69.763	1.00	28.10	C
ATOM	11125	OE1	GLU	D	155	9.184	78.996	70.633	1.00	33.22	O
ATOM	11126	OE2	GLU	D	155	9.628	79.519	68.549	1.00	28.36	O
ATOM	11127	N	ALA	D	156	11.975	79.892	74.310	1.00	23.94	N
ATOM	11128	CA	ALA	D	156	12.000	79.737	75.760	1.00	23.91	C
ATOM	11129	C	ALA	D	156	12.556	78.381	76.195	1.00	24.14	C
ATOM	11130	O	ALA	D	156	12.366	77.967	77.341	1.00	23.24	O
ATOM	11131	CB	ALA	D	156	10.591	79.932	76.330	1.00	24.00	C
ATOM	11132	N	GLY	D	157	13.233	77.689	75.282	1.00	22.83	N
ATOM	11133	CA	GLY	D	157	13.816	76.402	75.620	1.00	22.23	C
ATOM	11134	C	GLY	D	157	12.920	75.183	75.475	1.00	22.43	C
ATOM	11135	O	GLY	D	157	13.418	74.057	75.460	1.00	23.31	O
ATOM	11136	N	PHE	D	158	11.609	75.393	75.375	1.00	22.01	N
ATOM	11137	CA	PHE	D	158	10.663	74.288	75.232	1.00	21.81	C
ATOM	11138	C	PHE	D	158	10.669	73.414	76.483	1.00	22.31	C
ATOM	11139	O	PHE	D	158	10.533	72.193	76.398	1.00	21.51	O
ATOM	11140	CB	PHE	D	158	11.029	73.431	74.016	1.00	20.90	C
ATOM	11141	CG	PHE	D	158	10.803	74.119	72.703	1.00	21.98	C
ATOM	11142	CD1	PHE	D	158	9.536	74.134	72.119	1.00	18.71	C
ATOM	11143	CD2	PHE	D	158	11.847	74.783	72.063	1.00	19.81	C
ATOM	11144	CE1	PHE	D	158	9.310	74.799	70.920	1.00	18.78	C
ATOM	11145	CE2	PHE	D	158	11.629	75.455	70.859	1.00	21.46	C
ATOM	11146	CZ	PHE	D	158	10.353	75.461	70.288	1.00	20.14	C
ATOM	11147	N	GLY	D	159	10.838	74.041	77.641	1.00	21.82	N
ATOM	11148	CA	GLY	D	159	10.857	73.285	78.877	1.00	22.77	C
ATOM	11149	C	GLY	D	159	11.865	73.794	79.883	1.00	22.24	C
ATOM	11150	O	GLY	D	159	12.030	75.001	80.054	1.00	24.28	O
ATOM	11151	N	GLY	D	160	12.538	72.868	80.555	1.00	22.73	N
ATOM	11152	CA	GLY	D	160	13.527	73.244	81.550	1.00	21.90	C
ATOM	11153	C	GLY	D	160	14.934	73.338	80.992	1.00	22.15	C
ATOM	11154	O	GLY	D	160	15.139	73.293	79.776	1.00	22.53	O
ATOM	11155	N	ALA	D	161	15.910	73.452	81.889	1.00	21.66	N
ATOM	11156	CA	ALA	D	161	17.310	73.569	81.501	1.00	20.38	C
ATOM	11157	C	ALA	D	161	17.781	72.448	80.579	1.00	19.96	C
ATOM	11158	O	ALA	D	161	18.591	72.681	79.682	1.00	22.55	O
ATOM	11159	CB	ALA	D	161	18.185	73.623	82.748	1.00	22.06	C



ATOM	11160	N	LEU	D	162	17.282	71.236	80.798	1.00	19.05	N
ATOM	11161	CA	LEU	D	162	17.671	70.095	79.976	1.00	19.04	C
ATOM	11162	C	LEU	D	162	17.117	70.210	78.556	1.00	19.92	C
ATOM	11163	O	LEU	D	162	17.764	69.783	77.598	1.00	20.47	O
ATOM	11164	CB	LEU	D	162	17.207	68.787	80.626	1.00	16.39	C
ATOM	11165	CG	LEU	D	162	17.838	68.551	81.999	1.00	19.53	C
ATOM	11166	CD1	LEU	D	162	17.278	67.281	82.631	1.00	16.95	C
ATOM	11167	CD2	LEU	D	162	19.362	68.464	81.846	1.00	17.95	C
ATOM	11168	N	ASN	D	163	15.919	70.772	78.421	1.00	18.97	N
ATOM	11169	CA	ASN	D	163	15.324	70.964	77.099	1.00	19.13	C
ATOM	11170	C	ASN	D	163	16.163	72.029	76.388	1.00	17.73	C
ATOM	11171	O	ASN	D	163	16.416	71.951	75.188	1.00	15.34	O
ATOM	11172	CB	ASN	D	163	13.872	71.439	77.230	1.00	17.14	C
ATOM	11173	CG	ASN	D	163	12.952	70.370	77.820	1.00	19.55	C
ATOM	11174	OD1	ASN	D	163	12.492	69.466	77.116	1.00	19.49	O
ATOM	11175	ND2	ASN	D	163	12.689	70.467	79.117	1.00	14.60	N
ATOM	11176	N	VAL	D	164	16.597	73.027	77.152	1.00	17.22	N
ATOM	11177	CA	VAL	D	164	17.415	74.103	76.604	1.00	17.51	C
ATOM	11178	C	VAL	D	164	18.723	73.529	76.100	1.00	17.75	C
ATOM	11179	O	VAL	D	164	19.202	73.886	75.028	1.00	16.30	O
ATOM	11180	CB	VAL	D	164	17.745	75.159	77.675	1.00	18.33	C
ATOM	11181	CG1	VAL	D	164	18.905	76.026	77.214	1.00	15.66	C
ATOM	11182	CG2	VAL	D	164	16.517	76.009	77.958	1.00	17.32	C
ATOM	11183	N	TYR	D	165	19.290	72.630	76.898	1.00	18.45	N
ATOM	11184	CA	TYR	D	165	20.553	72.000	76.565	1.00	17.75	C
ATOM	11185	C	TYR	D	165	20.445	71.242	75.242	1.00	18.55	C
ATOM	11186	O	TYR	D	165	21.277	71.407	74.349	1.00	19.51	O
ATOM	11187	CB	TYR	D	165	20.981	71.059	77.705	1.00	16.58	C
ATOM	11188	CG	TYR	D	165	22.304	70.366	77.469	1.00	16.84	C
ATOM	11189	CD1	TYR	D	165	22.390	69.257	76.637	1.00	16.65	C
ATOM	11190	CD2	TYR	D	165	23.482	70.859	78.030	1.00	18.10	C
ATOM	11191	CE1	TYR	D	165	23.609	68.656	76.360	1.00	17.32	C
ATOM	11192	CE2	TYR	D	165	24.708	70.269	77.762	1.00	15.97	C
ATOM	11193	CZ	TYR	D	165	24.767	69.166	76.921	1.00	17.87	C
ATOM	11194	OH	TYR	D	165	25.981	68.582	76.622	1.00	14.62	O
ATOM	11195	N	GLU	D	166	19.408	70.426	75.108	1.00	17.99	N
ATOM	11196	CA	GLU	D	166	19.235	69.651	73.892	1.00	16.62	C
ATOM	11197	C	GLU	D	166	19.007	70.497	72.647	1.00	16.93	C
ATOM	11198	O	GLU	D	166	19.505	70.163	71.566	1.00	16.56	O
ATOM	11199	CB	GLU	D	166	18.102	68.645	74.077	1.00	17.56	C
ATOM	11200	CG	GLU	D	166	18.491	67.475	74.970	1.00	17.55	C
ATOM	11201	CD	GLU	D	166	19.733	66.752	74.458	1.00	19.56	C
ATOM	11202	OE1	GLU	D	166	19.753	66.359	73.273	1.00	20.71	O
ATOM	11203	OE2	GLU	D	166	20.690	66.575	75.237	1.00	18.49	O
ATOM	11204	N	LEU	D	167	18.268	71.595	72.791	1.00	15.34	N
ATOM	11205	CA	LEU	D	167	18.012	72.466	71.654	1.00	15.00	C
ATOM	11206	C	LEU	D	167	19.319	73.109	71.177	1.00	15.89	C
ATOM	11207	O	LEU	D	167	19.629	73.099	69.986	1.00	16.57	O
ATOM	11208	CB	LEU	D	167	16.989	73.544	72.024	1.00	13.96	C
ATOM	11209	CG	LEU	D	167	16.655	74.579	70.938	1.00	16.16	C
ATOM	11210	CD1	LEU	D	167	16.276	73.880	69.634	1.00	13.61	C
ATOM	11211	CD2	LEU	D	167	15.514	75.463	71.416	1.00	11.63	C
ATOM	11212	N	GLN	D	168	20.089	73.654	72.117	1.00	16.74	N
ATOM	11213	CA	GLN	D	168	21.360	74.290	71.798	1.00	15.43	C
ATOM	11214	C	GLN	D	168	22.274	73.293	71.092	1.00	16.53	C
ATOM	11215	O	GLN	D	168	22.880	73.608	70.063	1.00	17.28	O
ATOM	11216	CB	GLN	D	168	22.032	74.796	73.079	1.00	17.36	C
ATOM	11217	CG	GLN	D	168	23.416	75.377	72.861	1.00	15.22	C
ATOM	11218	CD	GLN	D	168	23.387	76.748	72.229	1.00	16.26	C
ATOM	11219	OE1	GLN	D	168	22.658	76.988	71.268	1.00	14.51	O
ATOM	11220	NE2	GLN	D	168	24.198	77.661	72.761	1.00	15.68	N
ATOM	11221	N	LYS	D	169	22.372	72.091	71.653	1.00	15.47	N
ATOM	11222	CA	LYS	D	169	23.198	71.039	71.067	1.00	14.66	C
ATOM	11223	C	LYS	D	169	22.749	70.741	69.628	1.00	15.11	C
ATOM	11224	O	LYS	D	169	23.573	70.664	68.714	1.00	14.19	O
ATOM	11225	CB	LYS	D	169	23.106	69.773	71.925	1.00	14.67	C
ATOM	11226	CG	LYS	D	169	23.818	68.563	71.348	1.00	15.66	C
ATOM	11227	CD	LYS	D	169	23.661	67.359	72.265	1.00	15.80	C
ATOM	11228	CE	LYS	D	169	24.309	66.117	71.672	1.00	19.09	C
ATOM	11229	NZ	LYS	D	169	24.287	64.982	72.631	1.00	22.09	N
ATOM	11230	N	ALA	D	170	21.439	70.591	69.430	1.00	15.23	N
ATOM	11231	CA	ALA	D	170	20.886	70.311	68.104	1.00	14.86	C
ATOM	11232	C	ALA	D	170	21.158	71.474	67.146	1.00	14.19	C
ATOM	11233	O	ALA	D	170	21.447	71.260	65.967	1.00	13.07	O
ATOM	11234	CB	ALA	D	170	19.371	70.038	68.204	1.00	11.96	C
ATOM	11235	N	LEU	D	171	21.056	72.704	67.649	1.00	14.46	N
ATOM	11236	CA	LEU	D	171	21.321	73.879	66.824	1.00	14.37	C
ATOM	11237	C	LEU	D	171	22.775	73.840	66.362	1.00	16.87	C
ATOM	11238	O	LEU	D	171	23.082	74.097	65.191	1.00	17.76	O
ATOM	11239	CB	LEU	D	171	21.076	75.167	67.618	1.00	13.33	C



ATOM	11240	CG	LEU	D	171	19.623	75.520	67.963	1.00	13.71	C
ATOM	11241	CD1	LEU	D	171	19.592	76.739	68.868	1.00	13.02	C
ATOM	11242	CD2	LEU	D	171	18.829	75.780	66.684	1.00	14.93	C
ATOM	11243	N	ILE	D	172	23.663	73.508	67.298	1.00	16.38	N
ATOM	11244	CA	ILE	D	172	25.088	73.428	67.031	1.00	15.11	C
ATOM	11245	C	ILE	D	172	25.403	72.315	66.038	1.00	16.31	C
ATOM	11246	O	ILE	D	172	26.265	72.476	65.172	1.00	16.23	O
ATOM	11247	CB	ILE	D	172	25.881	73.203	68.354	1.00	16.01	C
ATOM	11248	CG1	ILE	D	172	25.827	74.479	69.204	1.00	18.30	C
ATOM	11249	CG2	ILE	D	172	27.309	72.820	68.053	1.00	14.23	C
ATOM	11250	CD1	ILE	D	172	26.473	74.363	70.573	1.00	16.97	C
ATOM	11251	N	ALA	D	173	24.707	71.187	66.163	1.00	15.79	N
ATOM	11252	CA	ALA	D	173	24.923	70.063	65.259	1.00	16.48	C
ATOM	11253	C	ALA	D	173	24.533	70.465	63.840	1.00	15.69	C
ATOM	11254	O	ALA	D	173	25.152	70.042	62.866	1.00	16.70	O
ATOM	11255	CB	ALA	D	173	24.094	68.852	65.715	1.00	16.96	C
ATOM	11256	N	ALA	D	174	23.509	71.304	63.744	1.00	16.31	N
ATOM	11257	CA	ALA	D	174	22.992	71.793	62.471	1.00	14.36	C
ATOM	11258	C	ALA	D	174	23.907	72.853	61.849	1.00	16.39	C
ATOM	11259	O	ALA	D	174	23.813	73.131	60.646	1.00	16.34	O
ATOM	11260	CB	ALA	D	174	21.595	72.361	62.680	1.00	12.00	C
ATOM	11261	N	GLY	D	175	24.767	73.454	62.672	1.00	15.42	N
ATOM	11262	CA	GLY	D	175	25.704	74.460	62.187	1.00	15.86	C
ATOM	11263	C	GLY	D	175	25.355	75.909	62.483	1.00	16.18	C
ATOM	11264	O	GLY	D	175	25.683	76.802	61.706	1.00	16.63	O
ATOM	11265	N	VAL	D	176	24.697	76.155	63.606	1.00	15.56	N
ATOM	11266	CA	VAL	D	176	24.309	77.509	63.972	1.00	15.55	C
ATOM	11267	C	VAL	D	176	25.527	78.286	64.481	1.00	18.26	C
ATOM	11268	O	VAL	D	176	26.488	77.687	64.962	1.00	17.87	O
ATOM	11269	CB	VAL	D	176	23.217	77.478	65.069	1.00	14.42	C
ATOM	11270	CG1	VAL	D	176	23.846	77.218	66.435	1.00	14.71	C
ATOM	11271	CG2	VAL	D	176	22.436	78.761	65.060	1.00	13.35	C
ATOM	11272	N	ALA	D	177	25.488	79.614	64.371	1.00	18.98	N
ATOM	11273	CA	ALA	D	177	26.597	80.450	64.834	1.00	19.77	C
ATOM	11274	C	ALA	D	177	26.253	81.103	66.168	1.00	20.65	C
ATOM	11275	O	ALA	D	177	27.126	81.314	67.010	1.00	21.83	O
ATOM	11276	CB	ALA	D	177	26.928	81.525	63.793	1.00	19.63	C
ATOM	11277	N	GLY	D	178	24.974	81.416	66.355	1.00	19.79	N
ATOM	11278	CA	GLY	D	178	24.519	82.041	67.585	1.00	18.12	C
ATOM	11279	C	GLY	D	178	23.066	81.693	67.851	1.00	18.29	C
ATOM	11280	O	GLY	D	178	22.320	81.377	66.920	1.00	19.51	O
ATOM	11281	N	SER	D	179	22.654	81.735	69.114	1.00	16.43	N
ATOM	11282	CA	SER	D	179	21.277	81.409	69.462	1.00	16.97	C
ATOM	11283	C	SER	D	179	20.773	82.314	70.586	1.00	16.88	C
ATOM	11284	O	SER	D	179	21.544	82.682	71.468	1.00	17.20	O
ATOM	11285	CB	SER	D	179	21.190	79.934	69.885	1.00	18.25	C
ATOM	11286	OG	SER	D	179	22.022	79.657	71.002	1.00	19.85	O
ATOM	11287	N	HIS	D	180	19.493	82.688	70.548	1.00	18.37	N
ATOM	11288	CA	HIS	D	180	18.941	83.544	71.598	1.00	18.75	C
ATOM	11289	C	HIS	D	180	17.901	82.848	72.465	1.00	19.61	C
ATOM	11290	O	HIS	D	180	17.176	81.960	72.002	1.00	20.64	O
ATOM	11291	CB	HIS	D	180	18.378	84.865	71.028	1.00	17.09	C
ATOM	11292	CG	HIS	D	180	17.180	84.717	70.136	1.00	18.03	C
ATOM	11293	ND1	HIS	D	180	17.254	84.841	68.763	1.00	17.86	N
ATOM	11294	CD2	HIS	D	180	15.863	84.577	70.427	1.00	14.29	C
ATOM	11295	CE1	HIS	D	180	16.037	84.792	68.250	1.00	15.25	C
ATOM	11296	NE2	HIS	D	180	15.175	84.633	69.239	1.00	15.37	N
ATOM	11297	N	TRP	D	181	17.851	83.254	73.734	1.00	19.34	N
ATOM	11298	CA	TRP	D	181	16.943	82.670	74.713	1.00	19.00	C
ATOM	11299	C	TRP	D	181	16.238	83.736	75.529	1.00	20.81	C
ATOM	11300	O	TRP	D	181	16.877	84.648	76.060	1.00	21.44	O
ATOM	11301	CB	TRP	D	181	17.726	81.737	75.628	1.00	17.86	C
ATOM	11302	CG	TRP	D	181	18.652	80.876	74.855	1.00	18.35	C
ATOM	11303	CD1	TRP	D	181	19.863	81.237	74.329	1.00	17.31	C
ATOM	11304	CD2	TRP	D	181	18.410	79.534	74.423	1.00	17.37	C
ATOM	11305	NE1	TRP	D	181	20.385	80.203	73.591	1.00	17.85	N
ATOM	11306	CE2	TRP	D	181	19.515	79.144	73.632	1.00	16.65	C
ATOM	11307	CE3	TRP	D	181	17.365	78.621	74.625	1.00	17.34	C
ATOM	11308	CZ2	TRP	D	181	19.607	77.877	73.041	1.00	14.32	C
ATOM	11309	CZ3	TRP	D	181	17.456	77.352	74.035	1.00	15.47	C
ATOM	11310	CH2	TRP	D	181	18.571	76.999	73.254	1.00	15.18	C
ATOM	11311	N	GLU	D	182	14.917	83.595	75.635	1.00	20.24	N
ATOM	11312	CA	GLU	D	182	14.063	84.544	76.338	1.00	19.47	C
ATOM	11313	C	GLU	D	182	13.587	84.086	77.712	1.00	21.30	C
ATOM	11314	O	GLU	D	182	13.457	82.887	77.978	1.00	22.59	O
ATOM	11315	CB	GLU	D	182	12.859	84.860	75.453	1.00	20.03	C
ATOM	11316	CG	GLU	D	182	12.108	83.618	75.020	1.00	22.44	C
ATOM	11317	CD	GLU	D	182	11.303	83.823	73.756	1.00	22.81	C
ATOM	11318	OE1	GLU	D	182	11.873	84.323	72.761	1.00	21.81	O
ATOM	11319	OE2	GLU	D	182	10.106	83.473	73.754	1.00	21.85	O



ATOM	11320	N	ASP	D	183	13.305	85.059	78.576	1.00	20.72	N
ATOM	11321	CA	ASP	D	183	12.868	84.781	79.933	1.00	21.11	C
ATOM	11322	C	ASP	D	183	11.355	84.675	80.099	1.00	22.04	C
ATOM	11323	O	ASP	D	183	10.774	85.292	80.995	1.00	23.69	O
ATOM	11324	CB	ASP	D	183	13.437	85.831	80.909	1.00	20.48	C
ATOM	11325	CG	ASP	D	183	13.146	87.267	80.485	1.00	22.95	C
ATOM	11326	OD1	ASP	D	183	12.316	87.490	79.568	1.00	24.66	O
ATOM	11327	OD2	ASP	D	183	13.748	88.183	81.083	1.00	21.44	O
ATOM	11328	N	GLN	D	184	10.727	83.884	79.233	1.00	23.72	N
ATOM	11329	CA	GLN	D	184	9.286	83.655	79.281	1.00	25.27	C
ATOM	11330	C	GLN	D	184	9.024	82.215	79.677	1.00	26.82	C
ATOM	11331	O	GLN	D	184	9.861	81.344	79.447	1.00	28.15	O
ATOM	11332	CB	GLN	D	184	8.639	83.847	77.915	1.00	25.83	C
ATOM	11333	CG	GLN	D	184	8.515	85.252	77.398	1.00	24.77	C
ATOM	11334	CD	GLN	D	184	7.638	85.281	76.166	1.00	23.71	C
ATOM	11335	OE1	GLN	D	184	6.498	84.820	76.201	1.00	23.42	O
ATOM	11336	NE2	GLN	D	184	8.162	85.812	75.070	1.00	22.55	N
ATOM	11337	N	LEU	D	185	7.853	81.963	80.254	1.00	29.16	N
ATOM	11338	CA	LEU	D	185	7.471	80.607	80.634	1.00	29.33	C
ATOM	11339	C	LEU	D	185	7.250	79.884	79.306	1.00	30.64	C
ATOM	11340	O	LEU	D	185	6.434	80.318	78.493	1.00	30.30	O
ATOM	11341	CB	LEU	D	185	6.174	80.625	81.451	1.00	27.26	C
ATOM	11342	CG	LEU	D	185	5.543	79.271	81.807	1.00	26.56	C
ATOM	11343	CD1	LEU	D	185	6.464	78.481	82.717	1.00	23.11	C
ATOM	11344	CD2	LEU	D	185	4.205	79.503	82.483	1.00	24.56	C
ATOM	11345	N	ALA	D	186	7.988	78.799	79.079	1.00	31.28	N
ATOM	11346	CA	ALA	D	186	7.876	78.052	77.827	1.00	31.02	C
ATOM	11347	C	ALA	D	186	6.455	77.589	77.507	1.00	31.52	C
ATOM	11348	O	ALA	D	186	5.999	77.726	76.372	1.00	32.08	O
ATOM	11349	CB	ALA	D	186	8.824	76.851	77.846	1.00	29.64	C
ATOM	11350	N	SER	D	187	5.756	77.049	78.503	1.00	30.94	N
ATOM	11351	CA	SER	D	187	4.396	76.554	78.301	1.00	31.72	C
ATOM	11352	C	SER	D	187	3.368	77.641	77.970	1.00	32.16	C
ATOM	11353	O	SER	D	187	2.231	77.338	77.612	1.00	32.79	O
ATOM	11354	CB	SER	D	187	3.937	75.766	79.532	1.00	31.23	C
ATOM	11355	OG	SER	D	187	3.954	76.576	80.690	1.00	32.65	O
ATOM	11356	N	GLU	D	188	3.763	78.902	78.088	1.00	32.75	N
ATOM	11357	CA	GLU	D	188	2.861	80.008	77.782	1.00	33.35	C
ATOM	11358	C	GLU	D	188	3.570	81.005	76.875	1.00	32.42	C
ATOM	11359	O	GLU	D	188	3.101	82.128	76.693	1.00	34.01	O
ATOM	11360	CB	GLU	D	188	2.423	80.730	79.061	1.00	33.79	C
ATOM	11361	CG	GLU	D	188	1.661	79.883	80.066	1.00	36.40	C
ATOM	11362	CD	GLU	D	188	0.341	79.360	79.531	1.00	38.56	C
ATOM	11363	OE1	GLU	D	188	-0.319	80.082	78.751	1.00	40.72	O
ATOM	11364	OE2	GLU	D	188	-0.043	78.232	79.908	1.00	38.86	O
ATOM	11365	N	LYS	D	189	4.704	80.589	76.317	1.00	32.42	N
ATOM	11366	CA	LYS	D	189	5.492	81.448	75.437	1.00	31.55	C
ATOM	11367	C	LYS	D	189	4.604	82.194	74.448	1.00	32.65	C
ATOM	11368	O	LYS	D	189	3.698	81.616	73.841	1.00	32.68	O
ATOM	11369	CB	LYS	D	189	6.544	80.616	74.687	1.00	29.27	C
ATOM	11370	CG	LYS	D	189	7.459	81.400	73.730	1.00	27.99	C
ATOM	11371	CD	LYS	D	189	6.781	81.672	72.385	1.00	28.51	C
ATOM	11372	CE	LYS	D	189	7.766	82.181	71.329	1.00	28.71	C
ATOM	11373	NZ	LYS	D	189	8.335	83.525	71.647	1.00	27.28	N
ATOM	11374	N	LYS	D	190	4.867	83.490	74.307	1.00	33.13	N
ATOM	11375	CA	LYS	D	190	4.118	84.344	73.397	1.00	33.86	C
ATOM	11376	C	LYS	D	190	5.103	85.094	72.526	1.00	34.63	C
ATOM	11377	O	LYS	D	190	6.261	85.283	72.902	1.00	33.80	O
ATOM	11378	CB	LYS	D	190	3.290	85.370	74.172	1.00	33.67	C
ATOM	11379	CG	LYS	D	190	2.195	84.792	75.035	1.00	34.40	C
ATOM	11380	CD	LYS	D	190	1.077	84.219	74.196	1.00	35.80	C
ATOM	11381	CE	LYS	D	190	-0.104	83.868	75.077	1.00	35.89	C
ATOM	11382	NZ	LYS	D	190	0.308	82.990	76.216	1.00	37.40	N
ATOM	11383	N	SER	D	191	4.642	85.516	71.356	1.00	35.91	N
ATOM	11384	CA	SER	D	191	5.487	86.286	70.461	1.00	35.49	C
ATOM	11385	C	SER	D	191	5.834	87.548	71.249	1.00	34.82	C
ATOM	11386	O	SER	D	191	5.041	88.001	72.074	1.00	34.32	O
ATOM	11387	CB	SER	D	191	4.713	86.647	69.196	1.00	36.44	C
ATOM	11388	OG	SER	D	191	5.539	87.322	68.270	1.00	38.73	O
ATOM	11389	N	GLY	D	192	7.016	88.102	71.010	1.00	34.42	N
ATOM	11390	CA	GLY	D	192	7.428	89.298	71.725	1.00	34.73	C
ATOM	11391	C	GLY	D	192	6.424	90.436	71.678	1.00	34.36	C
ATOM	11392	O	GLY	D	192	6.340	91.234	72.614	1.00	34.90	O
ATOM	11393	N	HIS	D	193	5.647	90.504	70.601	1.00	33.88	N
ATOM	11394	CA	HIS	D	193	4.669	91.570	70.453	1.00	33.93	C
ATOM	11395	C	HIS	D	193	3.210	91.143	70.594	1.00	34.44	C
ATOM	11396	O	HIS	D	193	2.307	91.807	70.091	1.00	34.39	O
ATOM	11397	CB	HIS	D	193	4.904	92.293	69.126	1.00	32.80	C
ATOM	11398	CG	HIS	D	193	6.297	92.822	68.984	1.00	34.34	C
ATOM	11399	ND1	HIS	D	193	7.314	92.097	68.401	1.00	35.53	N



ATOM	11400	CD2	HIS	D	193	6.861	93.975	69.420	1.00	34.31	C
ATOM	11401	CE1	HIS	D	193	8.444	92.778	68.484	1.00	35.02	C
ATOM	11402	NE2	HIS	D	193	8.196	93.921	69.099	1.00	33.19	N
ATOM	11403	N	LEU	D	194	2.992	90.029	71.286	1.00	35.06	N
ATOM	11404	CA	LEU	D	194	1.646	89.525	71.552	1.00	34.91	C
ATOM	11405	C	LEU	D	194	1.435	89.678	73.058	1.00	34.85	O
ATOM	11406	O	LEU	D	194	2.401	89.701	73.821	1.00	35.07	O
ATOM	11407	CB	LEU	D	194	1.516	88.044	71.170	1.00	33.64	C
ATOM	11408	CG	LEU	D	194	1.426	87.640	69.693	1.00	35.19	C
ATOM	11409	CD1	LEU	D	194	1.366	86.118	69.608	1.00	35.81	C
ATOM	11410	CD2	LEU	D	194	0.187	88.248	69.036	1.00	32.52	C
ATOM	11411	N	GLY	D	195	0.182	89.783	73.483	1.00	34.95	N
ATOM	11412	CA	GLY	D	195	-0.095	89.930	74.899	1.00	34.38	C
ATOM	11413	C	GLY	D	195	-0.117	88.598	75.624	1.00	35.01	C
ATOM	11414	O	GLY	D	195	0.143	87.550	75.024	1.00	35.11	O
ATOM	11415	N	GLY	D	196	-0.423	88.646	76.918	1.00	34.58	N
ATOM	11416	CA	GLY	D	196	-0.486	87.442	77.723	1.00	33.92	C
ATOM	11417	C	GLY	D	196	0.859	86.785	77.967	1.00	34.82	C
ATOM	11418	O	GLY	D	196	0.948	85.556	78.015	1.00	35.68	O
ATOM	11419	N	LYS	D	197	1.909	87.591	78.119	1.00	33.04	N
ATOM	11420	CA	LYS	D	197	3.241	87.045	78.362	1.00	30.69	C
ATOM	11421	C	LYS	D	197	3.524	86.856	79.851	1.00	29.95	C
ATOM	11422	O	LYS	D	197	3.181	87.707	80.679	1.00	30.60	O
ATOM	11423	CB	LYS	D	197	4.321	87.945	77.749	1.00	27.66	C
ATOM	11424	CG	LYS	D	197	4.206	88.099	76.244	1.00	28.77	C
ATOM	11425	CD	LYS	D	197	5.505	88.597	75.623	1.00	26.83	C
ATOM	11426	CE	LYS	D	197	5.912	89.961	76.141	1.00	22.23	C
ATOM	11427	NZ	LYS	D	197	7.165	90.385	75.464	1.00	25.13	N
ATOM	11428	N	VAL	D	198	4.145	85.726	80.178	1.00	28.02	N
ATOM	11429	CA	VAL	D	198	4.499	85.398	81.551	1.00	24.92	C
ATOM	11430	C	VAL	D	198	6.009	85.223	81.650	1.00	24.25	C
ATOM	11431	O	VAL	D	198	6.595	84.407	80.938	1.00	24.30	O
ATOM	11432	CB	VAL	D	198	3.835	84.089	82.016	1.00	23.93	C
ATOM	11433	CG1	VAL	D	198	4.092	83.891	83.499	1.00	22.31	C
ATOM	11434	CG2	VAL	D	198	2.341	84.122	81.734	1.00	21.57	C
ATOM	11435	N	LEU	D	199	6.638	85.995	82.526	1.00	23.00	N
ATOM	11436	CA	LEU	D	199	8.081	85.900	82.709	1.00	25.00	C
ATOM	11437	C	LEU	D	199	8.399	84.811	83.728	1.00	24.78	C
ATOM	11438	O	LEU	D	199	7.537	84.388	84.498	1.00	25.31	O
ATOM	11439	CB	LEU	D	199	8.654	87.231	83.211	1.00	22.35	C
ATOM	11440	CG	LEU	D	199	8.459	88.492	82.359	1.00	24.08	C
ATOM	11441	CD1	LEU	D	199	8.959	89.711	83.135	1.00	21.94	C
ATOM	11442	CD2	LEU	D	199	9.203	88.361	81.039	1.00	21.81	C
ATOM	11443	N	ILE	D	200	9.638	84.343	83.707	1.00	25.73	N
ATOM	11444	CA	ILE	D	200	10.086	83.348	84.667	1.00	24.34	C
ATOM	11445	C	ILE	D	200	11.071	84.097	85.563	1.00	23.25	C
ATOM	11446	O	ILE	D	200	11.526	85.185	85.214	1.00	22.86	O
ATOM	11447	CB	ILE	D	200	10.760	82.129	83.968	1.00	26.27	C
ATOM	11448	CG1	ILE	D	200	11.655	82.580	82.808	1.00	26.69	C
ATOM	11449	CG2	ILE	D	200	9.693	81.173	83.468	1.00	23.57	C
ATOM	11450	CD1	ILE	D	200	12.917	83.274	83.229	1.00	25.83	C
ATOM	11451	N	PRO	D	201	11.394	83.546	86.734	1.00	21.75	N
ATOM	11452	CA	PRO	D	201	12.334	84.264	87.603	1.00	22.07	C
ATOM	11453	C	PRO	D	201	13.675	84.579	86.940	1.00	22.93	C
ATOM	11454	O	PRO	D	201	14.131	83.849	86.052	1.00	23.67	O
ATOM	11455	CB	PRO	D	201	12.478	83.328	88.804	1.00	20.50	C
ATOM	11456	CG	PRO	D	201	11.131	82.666	88.867	1.00	21.53	C
ATOM	11457	CD	PRO	D	201	10.846	82.357	87.410	1.00	20.05	C
ATOM	11458	N	THR	D	202	14.298	85.673	87.374	1.00	21.66	N
ATOM	11459	CA	THR	D	202	15.590	86.087	86.837	1.00	21.71	C
ATOM	11460	C	THR	D	202	16.600	84.942	86.884	1.00	21.05	C
ATOM	11461	O	THR	D	202	17.261	84.644	85.894	1.00	19.69	O
ATOM	11462	CB	THR	D	202	16.171	87.294	87.633	1.00	21.26	C
ATOM	11463	OG1	THR	D	202	15.353	88.450	87.418	1.00	22.41	O
ATOM	11464	CG2	THR	D	202	17.589	87.612	87.187	1.00	17.98	C
ATOM	11465	N	GLN	D	203	16.709	84.298	88.041	1.00	22.75	N
ATOM	11466	CA	GLN	D	203	17.661	83.204	88.219	1.00	23.66	C
ATOM	11467	C	GLN	D	203	17.380	82.034	87.294	1.00	24.14	C
ATOM	11468	O	GLN	D	203	18.303	81.348	86.859	1.00	26.94	O
ATOM	11469	CB	GLN	D	203	17.650	82.714	89.671	1.00	23.84	C
ATOM	11470	CG	GLN	D	203	18.792	81.758	90.032	1.00	25.81	C
ATOM	11471	CD	GLN	D	203	20.145	82.289	89.597	1.00	26.99	C
ATOM	11472	OE1	GLN	D	203	20.409	83.487	89.687	1.00	28.72	O
ATOM	11473	NE2	GLN	D	203	21.010	81.401	89.120	1.00	27.42	N
ATOM	11474	N	GLN	D	204	16.106	81.808	86.993	1.00	23.87	N
ATOM	11475	CA	GLN	D	204	15.739	80.704	86.122	1.00	23.06	C
ATOM	11476	C	GLN	D	204	16.308	80.946	84.731	1.00	23.13	C
ATOM	11477	O	GLN	D	204	16.886	80.039	84.123	1.00	22.80	O
ATOM	11478	CB	GLN	D	204	14.216	80.544	86.051	1.00	24.21	C
ATOM	11479	CG	GLN	D	204	13.770	79.209	85.451	1.00	23.87	C



ATOM	11480	CD	GLN	D	204	12.257	79.031	85.455	1.00	23.98	C
ATOM	11481	OE1	GLN	D	204	11.591	79.315	86.450	1.00	23.00	O
ATOM	11482	NE2	GLN	D	204	11.713	78.542	84.343	1.00	23.42	N
ATOM	11483	N	HIS	D	205	16.165	82.164	84.220	1.00	21.25	N
ATOM	11484	CA	HIS	D	205	16.708	82.419	82.905	1.00	20.71	C
ATOM	11485	C	HIS	D	205	18.225	82.332	82.950	1.00	19.30	C
ATOM	11486	O	HIS	D	205	18.848	81.993	81.952	1.00	18.95	O
ATOM	11487	CB	HIS	D	205	16.297	83.781	82.353	1.00	21.16	C
ATOM	11488	CG	HIS	D	205	16.484	83.887	80.871	1.00	22.83	C
ATOM	11489	ND1	HIS	D	205	17.121	84.951	80.269	1.00	24.50	N
ATOM	11490	CD2	HIS	D	205	16.155	83.032	79.874	1.00	21.58	C
ATOM	11491	CE1	HIS	D	205	17.180	84.745	78.965	1.00	24.30	C
ATOM	11492	NE2	HIS	D	205	16.602	83.587	78.699	1.00	23.99	N
ATOM	11493	N	ILE	D	206	18.826	82.635	84.098	1.00	19.54	N
ATOM	11494	CA	ILE	D	206	20.283	82.537	84.193	1.00	19.28	C
ATOM	11495	C	ILE	D	206	20.667	81.069	84.059	1.00	18.52	C
ATOM	11496	O	ILE	D	206	21.699	80.748	83.480	1.00	20.00	O
ATOM	11497	CB	ILE	D	206	20.830	83.124	85.523	1.00	19.18	C
ATOM	11498	CG1	ILE	D	206	20.743	84.652	85.476	1.00	20.85	C
ATOM	11499	CG2	ILE	D	206	22.286	82.699	85.737	1.00	16.38	C
ATOM	11500	CD1	ILE	D	206	21.285	85.354	86.708	1.00	21.62	C
ATOM	11501	N	ARG	D	207	19.829	80.176	84.580	1.00	20.06	N
ATOM	11502	CA	ARG	D	207	20.088	78.743	84.452	1.00	21.12	C
ATOM	11503	C	ARG	D	207	19.990	78.387	82.970	1.00	19.31	C
ATOM	11504	O	ARG	D	207	20.764	77.576	82.463	1.00	21.04	O
ATOM	11505	CB	ARG	D	207	19.066	77.909	85.243	1.00	23.52	C
ATOM	11506	CG	ARG	D	207	19.307	77.858	86.750	1.00	29.41	C
ATOM	11507	CD	ARG	D	207	18.563	76.690	87.412	1.00	31.12	C
ATOM	11508	NE	ARG	D	207	17.116	76.886	87.477	1.00	32.23	N
ATOM	11509	CZ	ARG	D	207	16.516	77.789	88.249	1.00	34.10	C
ATOM	11510	NH1	ARG	D	207	17.237	78.585	89.030	1.00	34.65	N
ATOM	11511	NH2	ARG	D	207	15.195	77.904	88.236	1.00	33.81	N
ATOM	11512	N	THR	D	208	19.036	79.001	82.277	1.00	18.68	N
ATOM	11513	CA	THR	D	208	18.858	78.752	80.849	1.00	19.10	C
ATOM	11514	C	THR	D	208	20.108	79.181	80.082	1.00	19.28	C
ATOM	11515	O	THR	D	208	20.655	78.415	79.286	1.00	18.92	O
ATOM	11516	CB	THR	D	208	17.644	79.526	80.285	1.00	19.60	C
ATOM	11517	OG1	THR	D	208	16.428	78.932	80.759	1.00	19.01	O
ATOM	11518	CG2	THR	D	208	17.662	79.503	78.758	1.00	17.21	C
ATOM	11519	N	LEU	D	209	20.556	80.410	80.324	1.00	19.31	N
ATOM	11520	CA	LEU	D	209	21.742	80.923	79.653	1.00	19.16	C
ATOM	11521	C	LEU	D	209	22.943	80.049	79.993	1.00	19.09	C
ATOM	11522	O	LEU	D	209	23.780	79.769	79.139	1.00	21.41	O
ATOM	11523	CB	LEU	D	209	21.994	82.374	80.065	1.00	16.70	C
ATOM	11524	CG	LEU	D	209	20.879	83.350	79.664	1.00	18.10	C
ATOM	11525	CD1	LEU	D	209	21.130	84.721	80.283	1.00	17.76	C
ATOM	11526	CD2	LEU	D	209	20.810	83.456	78.148	1.00	15.08	C
ATOM	11527	N	THR	D	210	23.010	79.596	81.238	1.00	20.77	N
ATOM	11528	CA	THR	D	210	24.110	78.743	81.676	1.00	21.06	C
ATOM	11529	C	THR	D	210	24.066	77.400	80.952	1.00	20.08	C
ATOM	11530	O	THR	D	210	25.097	76.874	80.533	1.00	22.04	O
ATOM	11531	CB	THR	D	210	24.044	78.505	83.187	1.00	21.19	C
ATOM	11532	OG1	THR	D	210	24.173	79.760	83.865	1.00	21.06	O
ATOM	11533	CG2	THR	D	210	25.161	77.568	83.631	1.00	22.15	C
ATOM	11534	N	SER	D	211	22.871	76.849	80.793	1.00	18.87	N
ATOM	11535	CA	SER	D	211	22.732	75.573	80.099	1.00	18.97	C
ATOM	11536	C	SER	D	211	23.124	75.707	78.626	1.00	19.43	C
ATOM	11537	O	SER	D	211	23.743	74.810	78.054	1.00	18.93	O
ATOM	11538	CB	SER	D	211	21.298	75.061	80.198	1.00	17.34	C
ATOM	11539	OG	SER	D	211	21.192	73.787	79.588	1.00	22.14	O
ATOM	11540	N	ALA	D	212	22.759	76.833	78.021	1.00	19.14	N
ATOM	11541	CA	ALA	D	212	23.074	77.084	76.622	1.00	19.02	C
ATOM	11542	C	ALA	D	212	24.589	77.142	76.432	1.00	19.52	C
ATOM	11543	O	ALA	D	212	25.117	76.649	75.441	1.00	18.71	O
ATOM	11544	CB	ALA	D	212	22.439	78.391	76.173	1.00	19.16	C
ATOM	11545	N	ARG	D	213	25.282	77.754	77.387	1.00	20.13	N
ATOM	11546	CA	ARG	D	213	26.735	77.862	77.321	1.00	20.16	C
ATOM	11547	C	ARG	D	213	27.356	76.488	77.531	1.00	19.69	C
ATOM	11548	O	ARG	D	213	28.268	76.092	76.808	1.00	21.26	O
ATOM	11549	CB	ARG	D	213	27.256	78.821	78.395	1.00	19.83	C
ATOM	11550	CG	ARG	D	213	28.759	79.033	78.321	1.00	22.31	C
ATOM	11551	CD	ARG	D	213	29.138	79.870	77.107	1.00	22.17	C
ATOM	11552	NE	ARG	D	213	28.802	81.274	77.326	1.00	26.65	N
ATOM	11553	CZ	ARG	D	213	28.864	82.222	76.395	1.00	27.83	C
ATOM	11554	NH1	ARG	D	213	29.248	81.928	75.155	1.00	26.42	N
ATOM	11555	NH2	ARG	D	213	28.544	83.471	76.712	1.00	27.79	N
ATOM	11556	N	LEU	D	214	26.860	75.766	78.533	1.00	19.55	N
ATOM	11557	CA	LEU	D	214	27.361	74.431	78.832	1.00	18.39	C
ATOM	11558	C	LEU	D	214	27.266	73.526	77.604	1.00	18.91	C
ATOM	11559	O	LEU	D	214	28.201	72.795	77.290	1.00	20.86	O



ATOM	11560	CB	LEU	D	214	26.568	73.807	79.984	1.00	15.87	C
ATOM	11561	CG	LEU	D	214	27.003	72.379	80.343	1.00	17.39	C
ATOM	11562	CD1	LEU	D	214	28.457	72.406	80.830	1.00	12.84	C
ATOM	11563	CD2	LEU	D	214	26.070	71.789	81.410	1.00	10.80	C
ATOM	11564	N	ALA	D	215	26.135	73.572	76.910	1.00	19.53	N
ATOM	11565	CA	ALA	D	215	25.958	72.740	75.722	1.00	19.53	C
ATOM	11566	C	ALA	D	215	27.015	73.080	74.669	1.00	18.45	C
ATOM	11567	O	ALA	D	215	27.563	72.187	74.034	1.00	17.61	O
ATOM	11568	CB	ALA	D	215	24.548	72.928	75.140	1.00	19.23	C
ATOM	11569	N	ALA	D	216	27.291	74.368	74.483	1.00	17.54	N
ATOM	11570	CA	ALA	D	216	28.293	74.791	73.505	1.00	17.96	C
ATOM	11571	C	ALA	D	216	29.681	74.313	73.930	1.00	20.16	C
ATOM	11572	O	ALA	D	216	30.455	73.810	73.107	1.00	20.26	O
ATOM	11573	CB	ALA	D	216	28.280	76.309	73.354	1.00	18.10	C
ATOM	11574	N	ASP	D	217	29.992	74.459	75.218	1.00	19.78	N
ATOM	11575	CA	ASP	D	217	31.285	74.023	75.737	1.00	19.38	C
ATOM	11576	C	ASP	D	217	31.490	72.523	75.551	1.00	20.48	C
ATOM	11577	O	ASP	D	217	32.583	72.080	75.188	1.00	22.08	O
ATOM	11578	CB	ASP	D	217	31.424	74.365	77.224	1.00	18.63	C
ATOM	11579	CG	ASP	D	217	31.617	75.849	77.468	1.00	21.86	C
ATOM	11580	OD1	ASP	D	217	32.140	76.538	76.559	1.00	20.89	O
ATOM	11581	OD2	ASP	D	217	31.262	76.320	78.573	1.00	20.78	O
ATOM	11582	N	VAL	D	218	30.449	71.740	75.812	1.00	19.82	N
ATOM	11583	CA	VAL	D	218	30.540	70.291	75.656	1.00	18.79	C
ATOM	11584	C	VAL	D	218	30.711	69.956	74.177	1.00	21.62	C
ATOM	11585	O	VAL	D	218	31.392	68.988	73.821	1.00	22.36	O
ATOM	11586	CB	VAL	D	218	29.278	69.591	76.223	1.00	18.46	C
ATOM	11587	CG1	VAL	D	218	29.258	68.107	75.831	1.00	14.75	C
ATOM	11588	CG2	VAL	D	218	29.264	69.727	77.738	1.00	13.39	C
ATOM	11589	N	ALA	D	219	30.101	70.772	73.320	1.00	21.15	N
ATOM	11590	CA	ALA	D	219	30.194	70.581	71.877	1.00	23.02	C
ATOM	11591	C	ALA	D	219	31.481	71.233	71.360	1.00	22.91	C
ATOM	11592	O	ALA	D	219	31.761	71.216	70.163	1.00	23.06	O
ATOM	11593	CB	ALA	D	219	28.964	71.185	71.176	1.00	20.84	C
ATOM	11594	N	ASP	D	220	32.246	71.820	72.277	1.00	23.52	N
ATOM	11595	CA	ASP	D	220	33.518	72.459	71.958	1.00	21.64	C
ATOM	11596	C	ASP	D	220	33.487	73.490	70.814	1.00	22.05	C
ATOM	11597	O	ASP	D	220	34.330	73.460	69.916	1.00	23.16	O
ATOM	11598	CB	ASP	D	220	34.556	71.364	71.676	1.00	23.85	C
ATOM	11599	CG	ASP	D	220	35.949	71.913	71.422	1.00	26.53	C
ATOM	11600	OD1	ASP	D	220	36.344	72.900	72.080	1.00	26.35	O
ATOM	11601	OD2	ASP	D	220	36.660	71.338	70.569	1.00	31.08	O
ATOM	11602	N	VAL	D	221	32.511	74.395	70.850	1.00	21.60	N
ATOM	11603	CA	VAL	D	221	32.390	75.462	69.854	1.00	20.19	C
ATOM	11604	C	VAL	D	221	32.014	76.756	70.587	1.00	20.87	C
ATOM	11605	O	VAL	D	221	31.236	76.731	71.537	1.00	21.02	O
ATOM	11606	CB	VAL	D	221	31.306	75.157	68.774	1.00	20.57	C
ATOM	11607	CG1	VAL	D	221	31.738	73.985	67.910	1.00	19.60	C
ATOM	11608	CG2	VAL	D	221	29.969	74.858	69.434	1.00	19.05	C
ATOM	11609	N	PRO	D	222	32.568	77.902	70.151	1.00	21.23	N
ATOM	11610	CA	PRO	D	222	32.317	79.222	70.748	1.00	21.58	C
ATOM	11611	C	PRO	D	222	30.987	79.882	70.367	1.00	21.69	C
ATOM	11612	O	PRO	D	222	30.945	81.080	70.072	1.00	22.96	O
ATOM	11613	CB	PRO	D	222	33.514	80.039	70.262	1.00	21.49	C
ATOM	11614	CG	PRO	D	222	33.696	79.512	68.871	1.00	22.78	C
ATOM	11615	CD	PRO	D	222	33.585	77.999	69.084	1.00	21.54	C
ATOM	11616	N	THR	D	223	29.908	79.106	70.388	1.00	20.90	N
ATOM	11617	CA	THR	D	223	28.579	79.605	70.031	1.00	18.91	C
ATOM	11618	C	THR	D	223	28.255	80.934	70.699	1.00	19.95	C
ATOM	11619	O	THR	D	223	28.483	81.111	71.897	1.00	21.93	O
ATOM	11620	CB	THR	D	223	27.475	78.582	70.423	1.00	17.70	C
ATOM	11621	OG1	THR	D	223	27.815	77.287	69.911	1.00	20.79	O
ATOM	11622	CG2	THR	D	223	26.140	78.988	69.858	1.00	14.83	C
ATOM	11623	N	VAL	D	224	27.727	81.869	69.917	1.00	19.51	N
ATOM	11624	CA	VAL	D	224	27.344	83.169	70.441	1.00	19.82	C
ATOM	11625	C	VAL	D	224	26.006	82.994	71.157	1.00	21.77	C
ATOM	11626	O	VAL	D	224	25.020	82.543	70.559	1.00	21.45	O
ATOM	11627	CB	VAL	D	224	27.197	84.217	69.307	1.00	21.22	C
ATOM	11628	CG1	VAL	D	224	26.503	85.473	69.834	1.00	21.18	C
ATOM	11629	CG2	VAL	D	224	28.567	84.582	68.752	1.00	19.49	C
ATOM	11630	N	VAL	D	225	25.981	83.346	72.440	1.00	21.64	N
ATOM	11631	CA	VAL	D	225	24.784	83.216	73.256	1.00	20.79	C
ATOM	11632	C	VAL	D	225	24.112	84.564	73.471	1.00	22.13	C
ATOM	11633	O	VAL	D	225	24.727	85.503	73.980	1.00	24.14	O
ATOM	11634	CB	VAL	D	225	25.136	82.581	74.625	1.00	21.66	C
ATOM	11635	CG1	VAL	D	225	23.913	82.557	75.538	1.00	20.94	C
ATOM	11636	CG2	VAL	D	225	25.660	81.160	74.410	1.00	20.47	C
ATOM	11637	N	ILE	D	226	22.842	84.654	73.085	1.00	22.75	N
ATOM	11638	CA	ILE	D	226	22.079	85.895	73.224	1.00	22.38	C
ATOM	11639	C	ILE	D	226	20.954	85.810	74.253	1.00	23.97	C



ATOM	11640	O	ILE	D	226	20.102	84.918	74.187	1.00	23.89	O
ATOM	11641	CB	ILE	D	226	21.452	86.300	71.877	1.00	22.20	C
ATOM	11642	CG1	ILE	D	226	22.545	86.392	70.815	1.00	22.69	C
ATOM	11643	CG2	ILE	D	226	20.717	87.625	72.019	1.00	18.38	C
ATOM	11644	CD1	ILE	D	226	22.024	86.685	69.431	1.00	25.34	C
ATOM	11645	N	ALA	D	227	20.945	86.746	75.199	1.00	23.98	N
ATOM	11646	CA	ALA	D	227	19.904	86.775	76.216	1.00	22.52	C
ATOM	11647	C	ALA	D	227	18.862	87.813	75.823	1.00	23.17	C
ATOM	11648	O	ALA	D	227	19.209	88.939	75.466	1.00	23.50	O
ATOM	11649	CB	ALA	D	227	20.498	87.118	77.571	1.00	24.02	C
ATOM	11650	N	ARG	D	228	17.588	87.423	75.885	1.00	22.84	N
ATOM	11651	CA	ARG	D	228	16.475	88.304	75.542	1.00	20.52	C
ATOM	11652	C	ARG	D	228	15.473	88.416	76.683	1.00	21.15	C
ATOM	11653	O	ARG	D	228	15.079	87.411	77.279	1.00	21.19	O
ATOM	11654	CB	ARG	D	228	15.744	87.790	74.296	1.00	21.36	C
ATOM	11655	CG	ARG	D	228	14.291	88.279	74.204	1.00	21.93	C
ATOM	11656	CD	ARG	D	228	13.564	87.754	72.976	1.00	22.67	C
ATOM	11657	NE	ARG	D	228	12.119	87.727	73.195	1.00	22.77	N
ATOM	11658	CZ	ARG	D	228	11.220	87.471	72.251	1.00	24.56	C
ATOM	11659	NH1	ARG	D	228	11.613	87.221	71.011	1.00	26.62	N
ATOM	11660	NH2	ARG	D	228	9.926	87.454	72.548	1.00	25.20	N
ATOM	11661	N	THR	D	229	15.054	89.637	76.988	1.00	19.71	N
ATOM	11662	CA	THR	D	229	14.080	89.830	78.043	1.00	22.18	C
ATOM	11663	C	THR	D	229	12.770	90.336	77.463	1.00	22.63	C
ATOM	11664	O	THR	D	229	12.769	91.170	76.558	1.00	24.26	O
ATOM	11665	CB	THR	D	229	14.575	90.838	79.109	1.00	23.75	C
ATOM	11666	OG1	THR	D	229	13.587	90.953	80.143	1.00	22.75	O
ATOM	11667	CG2	THR	D	229	14.814	92.221	78.487	1.00	24.66	C
ATOM	11668	N	ASP	D	230	11.660	89.823	77.985	1.00	22.78	N
ATOM	11669	CA	ASP	D	230	10.330	90.226	77.539	1.00	25.13	C
ATOM	11670	C	ASP	D	230	9.611	91.002	78.642	1.00	26.80	C
ATOM	11671	O	ASP	D	230	8.387	91.133	78.622	1.00	25.77	O
ATOM	11672	CB	ASP	D	230	9.500	88.995	77.161	1.00	24.97	C
ATOM	11673	CG	ASP	D	230	9.883	88.424	75.806	1.00	26.62	C
ATOM	11674	OD1	ASP	D	230	9.517	89.038	74.781	1.00	27.54	O
ATOM	11675	OD2	ASP	D	230	10.550	87.366	75.765	1.00	25.70	O
ATOM	11676	N	ALA	D	231	10.382	91.521	79.595	1.00	28.49	N
ATOM	11677	CA	ALA	D	231	9.831	92.268	80.727	1.00	30.32	C
ATOM	11678	C	ALA	D	231	9.249	93.641	80.382	1.00	30.73	C
ATOM	11679	O	ALA	D	231	8.535	94.232	81.194	1.00	28.99	O
ATOM	11680	CB	ALA	D	231	10.900	92.424	81.813	1.00	30.82	C
ATOM	11681	N	GLU	D	232	9.549	94.145	79.188	1.00	31.13	N
ATOM	11682	CA	GLU	D	232	9.049	95.454	78.778	1.00	31.90	C
ATOM	11683	C	GLU	D	232	7.521	95.484	78.744	1.00	31.10	C
ATOM	11684	O	GLU	D	232	6.909	96.457	79.184	1.00	31.78	O
ATOM	11685	CB	GLU	D	232	9.620	95.829	77.404	1.00	33.37	C
ATOM	11686	CG	GLU	D	232	9.473	97.301	77.023	1.00	37.29	C
ATOM	11687	CD	GLU	D	232	8.134	97.629	76.382	1.00	39.92	C
ATOM	11688	OE1	GLU	D	232	7.845	97.097	75.289	1.00	42.92	O
ATOM	11689	OE2	GLU	D	232	7.370	98.423	76.967	1.00	41.73	O
ATOM	11690	N	ALA	D	233	6.903	94.413	78.251	1.00	29.32	N
ATOM	11691	CA	ALA	D	233	5.446	94.364	78.165	1.00	29.42	C
ATOM	11692	C	ALA	D	233	4.783	93.335	79.077	1.00	28.57	C
ATOM	11693	O	ALA	D	233	3.603	93.463	79.395	1.00	29.96	O
ATOM	11694	CB	ALA	D	233	5.019	94.115	76.720	1.00	28.97	C
ATOM	11695	N	ALA	D	234	5.532	92.323	79.499	1.00	27.42	N
ATOM	11696	CA	ALA	D	234	4.979	91.281	80.362	1.00	27.98	C
ATOM	11697	C	ALA	D	234	4.497	91.812	81.712	1.00	27.96	C
ATOM	11698	O	ALA	D	234	5.260	92.434	82.456	1.00	27.97	O
ATOM	11699	CB	ALA	D	234	6.007	90.176	80.572	1.00	25.86	C
ATOM	11700	N	THR	D	235	3.223	91.568	82.015	1.00	28.35	N
ATOM	11701	CA	THR	D	235	2.628	92.007	83.279	1.00	29.10	C
ATOM	11702	C	THR	D	235	2.425	90.821	84.212	1.00	28.95	C
ATOM	11703	O	THR	D	235	1.693	90.920	85.198	1.00	29.93	O
ATOM	11704	CB	THR	D	235	1.245	92.666	83.076	1.00	30.35	C
ATOM	11705	OG1	THR	D	235	0.362	91.734	82.438	1.00	31.71	O
ATOM	11706	CG2	THR	D	235	1.361	93.924	82.234	1.00	29.12	C
ATOM	11707	N	LEU	D	236	3.072	89.703	83.891	1.00	28.94	N
ATOM	11708	CA	LEU	D	236	2.955	88.490	84.690	1.00	27.50	C
ATOM	11709	C	LEU	D	236	4.279	87.761	84.853	1.00	26.49	C
ATOM	11710	O	LEU	D	236	5.134	87.789	83.970	1.00	24.73	O
ATOM	11711	CB	LEU	D	236	1.947	87.537	84.051	1.00	26.69	C
ATOM	11712	CG	LEU	D	236	0.505	88.022	83.965	1.00	26.58	C
ATOM	11713	CD1	LEU	D	236	-0.286	87.075	83.086	1.00	27.90	C
ATOM	11714	CD2	LEU	D	236	-0.101	88.103	85.358	1.00	26.07	C
ATOM	11715	N	ILE	D	237	4.433	87.103	85.995	1.00	25.28	N
ATOM	11716	CA	ILE	D	237	5.630	86.337	86.280	1.00	26.29	C
ATOM	11717	C	ILE	D	237	5.183	85.112	87.063	1.00	26.74	C
ATOM	11718	O	ILE	D	237	4.249	85.180	87.865	1.00	28.13	O
ATOM	11719	CB	ILE	D	237	6.658	87.166	87.084	1.00	26.48	C



ATOM	11720	CG1	ILE	D	237	7.967	86.386	87.205	1.00	27.06	C
ATOM	11721	CG2	ILE	D	237	6.098	87.518	88.447	1.00	28.36	C
ATOM	11722	CD1	ILE	D	237	9.110	87.196	87.804	1.00	26.91	C
ATOM	11723	N	THR	D	238	5.837	83.987	86.815	1.00	25.61	N
ATOM	11724	CA	THR	D	238	5.471	82.741	87.465	1.00	24.82	C
ATOM	11725	C	THR	D	238	5.704	82.697	88.959	1.00	26.13	C
ATOM	11726	O	THR	D	238	4.944	82.054	89.683	1.00	27.02	O
ATOM	11727	CB	THR	D	238	6.233	81.567	86.857	1.00	25.07	C
ATOM	11728	OG1	THR	D	238	7.637	81.802	87.002	1.00	23.29	O
ATOM	11729	CG2	THR	D	238	5.881	81.404	85.377	1.00	22.18	C
ATOM	11730	N	SER	D	239	6.749	83.371	89.429	1.00	26.53	N
ATOM	11731	CA	SER	D	239	7.069	83.339	90.850	1.00	27.39	C
ATOM	11732	C	SER	D	239	7.752	84.599	91.359	1.00	28.80	C
ATOM	11733	O	SER	D	239	8.360	85.350	90.591	1.00	28.15	O
ATOM	11734	CB	SER	D	239	7.957	82.120	91.139	1.00	26.62	C
ATOM	11735	OG	SER	D	239	8.345	82.052	92.496	1.00	25.91	O
ATOM	11736	N	ASP	D	240	7.651	84.815	92.667	1.00	29.33	N
ATOM	11737	CA	ASP	D	240	8.258	85.972	93.306	1.00	30.31	C
ATOM	11738	C	ASP	D	240	9.416	85.507	94.180	1.00	30.78	C
ATOM	11739	O	ASP	D	240	9.836	86.213	95.096	1.00	32.07	O
ATOM	11740	CB	ASP	D	240	7.211	86.701	94.152	1.00	31.05	C
ATOM	11741	CG	ASP	D	240	6.725	85.871	95.328	1.00	32.55	C
ATOM	11742	OD1	ASP	D	240	6.707	84.624	95.228	1.00	33.41	O
ATOM	11743	OD2	ASP	D	240	6.343	86.472	96.353	1.00	34.19	O
ATOM	11744	N	VAL	D	241	9.927	84.315	93.878	1.00	30.08	N
ATOM	11745	CA	VAL	D	241	11.035	83.717	94.621	1.00	30.27	C
ATOM	11746	C	VAL	D	241	12.367	84.461	94.473	1.00	29.91	C
ATOM	11747	O	VAL	D	241	13.181	84.465	95.400	1.00	30.49	O
ATOM	11748	CB	VAL	D	241	11.250	82.235	94.201	1.00	31.36	C
ATOM	11749	CG1	VAL	D	241	11.698	82.162	92.747	1.00	30.40	C
ATOM	11750	CG2	VAL	D	241	12.277	81.577	95.107	1.00	31.44	C
ATOM	11751	N	ASP	D	242	12.600	85.084	93.318	1.00	29.38	N
ATOM	11752	CA	ASP	D	242	13.848	85.815	93.110	1.00	29.93	C
ATOM	11753	C	ASP	D	242	13.726	87.230	93.659	1.00	31.76	C
ATOM	11754	O	ASP	D	242	12.821	87.978	93.288	1.00	32.50	O
ATOM	11755	CB	ASP	D	242	14.215	85.870	91.624	1.00	28.18	C
ATOM	11756	CG	ASP	D	242	15.672	86.259	91.398	1.00	27.74	C
ATOM	11757	OD1	ASP	D	242	16.103	87.305	91.929	1.00	29.77	O
ATOM	11758	OD2	ASP	D	242	16.390	85.522	90.689	1.00	25.36	O
ATOM	11759	N	GLU	D	243	14.644	87.592	94.545	1.00	32.28	N
ATOM	11760	CA	GLU	D	243	14.628	88.911	95.156	1.00	33.43	C
ATOM	11761	C	GLU	D	243	14.822	90.043	94.163	1.00	32.29	C
ATOM	11762	O	GLU	D	243	14.395	91.172	94.415	1.00	32.70	O
ATOM	11763	CB	GLU	D	243	15.684	88.981	96.260	1.00	35.73	C
ATOM	11764	CG	GLU	D	243	15.320	88.117	97.461	1.00	41.39	C
ATOM	11765	CD	GLU	D	243	16.377	88.126	98.546	1.00	45.61	C
ATOM	11766	OE1	GLU	D	243	16.754	89.231	99.000	1.00	46.90	O
ATOM	11767	OE2	GLU	D	243	16.823	87.024	98.946	1.00	46.05	O
ATOM	11768	N	ARG	D	244	15.456	89.752	93.033	1.00	30.33	N
ATOM	11769	CA	ARG	D	244	15.677	90.785	92.025	1.00	29.46	C
ATOM	11770	C	ARG	D	244	14.390	91.143	91.277	1.00	27.66	C
ATOM	11771	O	ARG	D	244	14.328	92.160	90.593	1.00	28.28	O
ATOM	11772	CB	ARG	D	244	16.761	90.336	91.040	1.00	29.11	C
ATOM	11773	CG	ARG	D	244	18.165	90.376	91.627	1.00	26.40	C
ATOM	11774	CD	ARG	D	244	19.147	89.568	90.799	1.00	28.02	C
ATOM	11775	NE	ARG	D	244	18.746	88.167	90.733	1.00	27.64	N
ATOM	11776	CZ	ARG	D	244	19.487	87.203	90.202	1.00	27.30	C
ATOM	11777	NH1	ARG	D	244	20.676	87.488	89.691	1.00	27.53	N
ATOM	11778	NH2	ARG	D	244	19.036	85.957	90.180	1.00	27.50	N
ATOM	11779	N	ASP	D	245	13.361	90.313	91.426	1.00	26.61	N
ATOM	11780	CA	ASP	D	245	12.086	90.550	90.760	1.00	26.13	C
ATOM	11781	C	ASP	D	245	11.010	91.102	91.690	1.00	26.20	C
ATOM	11782	O	ASP	D	245	10.055	91.723	91.235	1.00	28.12	O
ATOM	11783	CB	ASP	D	245	11.564	89.256	90.133	1.00	25.98	C
ATOM	11784	CG	ASP	D	245	12.577	88.599	89.218	1.00	27.35	C
ATOM	11785	OD1	ASP	D	245	13.185	89.318	88.392	1.00	25.73	O
ATOM	11786	OD2	ASP	D	245	12.751	87.362	89.322	1.00	25.93	O
ATOM	11787	N	GLN	D	246	11.157	90.873	92.988	1.00	26.50	N
ATOM	11788	CA	GLN	D	246	10.169	91.340	93.954	1.00	27.87	C
ATOM	11789	C	GLN	D	246	9.874	92.851	93.905	1.00	28.82	C
ATOM	11790	O	GLN	D	246	8.747	93.275	94.147	1.00	27.87	O
ATOM	11791	CB	GLN	D	246	10.594	90.920	95.363	1.00	27.84	C
ATOM	11792	CG	GLN	D	246	10.766	89.412	95.504	1.00	29.37	C
ATOM	11793	CD	GLN	D	246	11.303	88.991	96.865	1.00	31.63	C
ATOM	11794	OE1	GLN	D	246	11.907	89.791	97.584	1.00	32.79	O
ATOM	11795	NE2	GLN	D	246	11.106	87.720	97.213	1.00	29.29	N
ATOM	11796	N	PRO	D	247	10.876	93.683	93.581	1.00	29.73	N
ATOM	11797	CA	PRO	D	247	10.573	95.117	93.537	1.00	30.05	C
ATOM	11798	C	PRO	D	247	9.462	95.446	92.545	1.00	30.27	C
ATOM	11799	O	PRO	D	247	8.797	96.476	92.656	1.00	31.02	O



ATOM	11800	CB	PRO	D	247	11.902	95.737	93.122	1.00	28.84	C
ATOM	11801	CG	PRO	D	247	12.902	94.805	93.713	1.00	29.80	C
ATOM	11802	CD	PRO	D	247	12.315	93.451	93.374	1.00	29.60	C
ATOM	11803	N	PHE	D	248	9.256	94.558	91.582	1.00	29.47	N
ATOM	11804	CA	PHE	D	248	8.249	94.780	90.559	1.00	30.08	C
ATOM	11805	C	PHE	D	248	6.949	94.031	90.794	1.00	31.51	C
ATOM	11806	O	PHE	D	248	5.961	94.292	90.110	1.00	32.39	O
ATOM	11807	CB	PHE	D	248	8.826	94.398	89.197	1.00	30.01	C
ATOM	11808	CG	PHE	D	248	10.127	95.077	88.888	1.00	29.85	C
ATOM	11809	CD1	PHE	D	248	10.158	96.418	88.522	1.00	30.86	C
ATOM	11810	CD2	PHE	D	248	11.328	94.388	89.008	1.00	29.34	C
ATOM	11811	CE1	PHE	D	248	11.371	97.066	88.282	1.00	30.29	C
ATOM	11812	CE2	PHE	D	248	12.546	95.022	88.772	1.00	29.65	C
ATOM	11813	CZ	PHE	D	248	12.569	96.365	88.408	1.00	30.51	C
ATOM	11814	N	ILE	D	249	6.942	93.113	91.757	1.00	32.38	N
ATOM	11815	CA	ILE	D	249	5.746	92.326	92.051	1.00	34.39	C
ATOM	11816	C	ILE	D	249	4.676	93.160	92.763	1.00	36.11	C
ATOM	11817	O	ILE	D	249	4.958	93.806	93.772	1.00	36.26	O
ATOM	11818	CB	ILE	D	249	6.090	91.100	92.928	1.00	33.97	C
ATOM	11819	CG1	ILE	D	249	7.180	90.259	92.254	1.00	35.07	C
ATOM	11820	CG2	ILE	D	249	4.848	90.253	93.143	1.00	33.65	C
ATOM	11821	CD1	ILE	D	249	6.813	89.753	90.879	1.00	34.53	C
ATOM	11822	N	THR	D	250	3.448	93.128	92.244	1.00	36.31	N
ATOM	11823	CA	THR	D	250	2.345	93.896	92.824	1.00	38.60	C
ATOM	11824	C	THR	D	250	1.612	93.222	93.987	1.00	40.60	C
ATOM	11825	O	THR	D	250	0.929	93.894	94.761	1.00	42.10	O
ATOM	11826	CB	THR	D	250	1.283	94.237	91.771	1.00	38.56	C
ATOM	11827	OG1	THR	D	250	0.555	93.050	91.428	1.00	39.30	O
ATOM	11828	CG2	THR	D	250	1.935	94.809	90.524	1.00	38.83	C
ATOM	11829	N	GLY	D	251	1.734	91.902	94.103	1.00	41.94	N
ATOM	11830	CA	GLY	D	251	1.065	91.199	95.185	1.00	42.06	C
ATOM	11831	C	GLY	D	251	-0.197	90.485	94.738	1.00	42.87	C
ATOM	11832	O	GLY	D	251	-0.653	89.541	95.385	1.00	43.33	O
ATOM	11833	N	GLU	D	252	-0.767	90.939	93.628	1.00	43.12	N
ATOM	11834	CA	GLU	D	252	-1.973	90.328	93.082	1.00	43.82	C
ATOM	11835	C	GLU	D	252	-1.613	89.007	92.399	1.00	43.56	C
ATOM	11836	O	GLU	D	252	-0.487	88.825	91.931	1.00	43.33	O
ATOM	11837	CB	GLU	D	252	-2.608	91.264	92.065	1.00	44.88	C
ATOM	11838	CG	GLU	D	252	-2.580	92.716	92.484	1.00	48.61	C
ATOM	11839	CD	GLU	D	252	-2.858	93.642	91.322	1.00	51.86	C
ATOM	11840	OE1	GLU	D	252	-4.017	93.678	90.853	1.00	54.12	O
ATOM	11841	OE2	GLU	D	252	-1.910	94.320	90.866	1.00	52.49	O
ATOM	11842	N	ARG	D	253	-2.580	88.098	92.336	1.00	43.17	N
ATOM	11843	CA	ARG	D	253	-2.379	86.789	91.722	1.00	42.94	C
ATOM	11844	C	ARG	D	253	-3.561	86.424	90.827	1.00	42.51	C
ATOM	11845	O	ARG	D	253	-4.711	86.737	91.145	1.00	43.44	O
ATOM	11846	CB	ARG	D	253	-2.219	85.730	92.816	1.00	43.44	C
ATOM	11847	CG	ARG	D	253	-1.011	85.936	93.713	1.00	44.00	C
ATOM	11848	CD	ARG	D	253	0.183	85.124	93.232	1.00	45.19	C
ATOM	11849	NE	ARG	D	253	0.065	83.698	93.544	1.00	46.34	N
ATOM	11850	CZ	ARG	D	253	-0.003	83.205	94.778	1.00	46.50	C
ATOM	11851	NH1	ARG	D	253	0.033	84.024	95.818	1.00	47.95	N
ATOM	11852	NH2	ARG	D	253	-0.102	81.896	94.977	1.00	47.55	N
ATOM	11853	N	THR	D	254	-3.281	85.764	89.708	1.00	41.08	N
ATOM	11854	CA	THR	D	254	-4.336	85.353	88.790	1.00	39.45	C
ATOM	11855	C	THR	D	254	-4.864	83.992	89.238	1.00	39.62	C
ATOM	11856	O	THR	D	254	-4.287	83.358	90.119	1.00	38.73	O
ATOM	11857	CB	THR	D	254	-3.813	85.235	87.337	1.00	39.73	C
ATOM	11858	OG1	THR	D	254	-2.935	84.109	87.229	1.00	38.20	O
ATOM	11859	CG2	THR	D	254	-3.056	86.500	86.940	1.00	38.55	C
ATOM	11860	N	ARG	D	255	-5.962	83.547	88.637	1.00	40.40	N
ATOM	11861	CA	ARG	D	255	-6.547	82.257	88.986	1.00	41.16	C
ATOM	11862	C	ARG	D	255	-5.560	81.115	88.750	1.00	39.76	C
ATOM	11863	O	ARG	D	255	-5.628	80.084	89.419	1.00	39.14	O
ATOM	11864	CB	ARG	D	255	-7.818	82.004	88.167	1.00	44.51	C
ATOM	11865	CG	ARG	D	255	-8.903	83.055	88.347	1.00	49.92	C
ATOM	11866	CD	ARG	D	255	-10.138	82.751	87.499	1.00	54.81	C
ATOM	11867	NE	ARG	D	255	-10.873	81.582	87.981	1.00	59.19	N
ATOM	11868	CZ	ARG	D	255	-11.443	81.497	89.181	1.00	61.35	C
ATOM	11869	NH1	ARG	D	255	-11.367	82.516	90.028	1.00	62.45	N
ATOM	11870	NH2	ARG	D	255	-12.089	80.391	89.537	1.00	61.75	N
ATOM	11871	N	GLU	D	256	-4.644	81.297	87.800	1.00	38.19	N
ATOM	11872	CA	GLU	D	256	-3.661	80.257	87.494	1.00	36.32	C
ATOM	11873	C	GLU	D	256	-2.514	80.241	88.504	1.00	36.20	C
ATOM	11874	O	GLU	D	256	-1.713	79.302	88.538	1.00	35.30	O
ATOM	11875	CB	GLU	D	256	-3.104	80.440	86.075	1.00	34.48	C
ATOM	11876	CG	GLU	D	256	-4.161	80.358	84.979	1.00	32.53	C
ATOM	11877	CD	GLU	D	256	-4.627	81.725	84.510	1.00	33.60	C
ATOM	11878	OE1	GLU	D	256	-4.811	82.626	85.356	1.00	35.04	O
ATOM	11879	OE2	GLU	D	256	-4.817	81.899	83.289	1.00	34.64	O



ATOM	11880	N	GLY	D	257	-2.443	81.283	89.329	1.00	35.13	N
ATOM	11881	CA	GLY	D	257	-1.391	81.365	90.324	1.00	33.40	C
ATOM	11882	C	GLY	D	257	-0.236	82.264	89.922	1.00	34.40	C
ATOM	11883	O	GLY	D	257	0.770	82.346	90.636	1.00	35.20	O
ATOM	11884	N	PHE	D	258	-0.359	82.942	88.782	1.00	33.41	N
ATOM	11885	CA	PHE	D	258	0.706	83.837	88.333	1.00	31.74	C
ATOM	11886	C	PHE	D	258	0.705	85.101	89.186	1.00	31.60	C
ATOM	11887	O	PHE	D	258	-0.318	85.461	89.766	1.00	32.25	O
ATOM	11888	CB	PHE	D	258	0.509	84.232	86.865	1.00	30.81	C
ATOM	11889	CG	PHE	D	258	0.490	83.068	85.912	1.00	30.27	C
ATOM	11890	CD1	PHE	D	258	1.422	82.041	86.023	1.00	30.43	C
ATOM	11891	CD2	PHE	D	258	-0.441	83.017	84.879	1.00	29.45	C
ATOM	11892	CE1	PHE	D	258	1.430	80.976	85.116	1.00	30.06	C
ATOM	11893	CE2	PHE	D	258	-0.441	81.954	83.965	1.00	29.97	C
ATOM	11894	CZ	PHE	D	258	0.498	80.934	84.086	1.00	27.42	C
ATOM	11895	N	TYR	D	259	1.853	85.767	89.264	1.00	30.95	N
ATOM	11896	CA	TYR	D	259	1.963	87.006	90.026	1.00	31.21	C
ATOM	11897	C	TYR	D	259	1.969	88.197	89.072	1.00	32.44	C
ATOM	11898	O	TYR	D	259	2.672	88.177	88.059	1.00	33.20	O
ATOM	11899	CB	TYR	D	259	3.264	87.043	90.837	1.00	31.34	C
ATOM	11900	CG	TYR	D	259	3.363	86.027	91.950	1.00	29.84	C
ATOM	11901	CD1	TYR	D	259	3.521	84.669	91.673	1.00	28.68	C
ATOM	11902	CD2	TYR	D	259	3.312	86.427	93.286	1.00	31.29	C
ATOM	11903	CE1	TYR	D	259	3.629	83.733	92.701	1.00	28.93	C
ATOM	11904	CE2	TYR	D	259	3.420	85.498	94.325	1.00	30.13	C
ATOM	11905	CZ	TYR	D	259	3.579	84.154	94.024	1.00	30.75	C
ATOM	11906	OH	TYR	D	259	3.706	83.236	95.046	1.00	32.29	O
ATOM	11907	N	ARG	D	260	1.182	89.224	89.383	1.00	32.54	N
ATOM	11908	CA	ARG	D	260	1.155	90.427	88.560	1.00	32.38	C
ATOM	11909	C	ARG	D	260	2.477	91.131	88.826	1.00	32.51	C
ATOM	11910	O	ARG	D	260	2.914	91.201	89.974	1.00	32.43	O
ATOM	11911	CB	ARG	D	260	0.013	91.354	88.979	1.00	33.98	C
ATOM	11912	CG	ARG	D	260	-1.375	90.902	88.566	1.00	36.95	C
ATOM	11913	CD	ARG	D	260	-1.585	91.053	87.072	1.00	39.61	C
ATOM	11914	NE	ARG	D	260	-2.890	90.536	86.665	1.00	44.17	N
ATOM	11915	CZ	ARG	D	260	-3.283	90.411	85.401	1.00	45.12	C
ATOM	11916	NH1	ARG	D	260	-2.474	90.768	84.409	1.00	46.65	N
ATOM	11917	NH2	ARG	D	260	-4.482	89.915	85.129	1.00	45.23	N
ATOM	11918	N	THR	D	261	3.113	91.642	87.774	1.00	32.87	N
ATOM	11919	CA	THR	D	261	4.385	92.352	87.919	1.00	32.90	C
ATOM	11920	C	THR	D	261	4.370	93.632	87.091	1.00	33.87	C
ATOM	11921	O	THR	D	261	3.706	93.699	86.055	1.00	33.89	O
ATOM	11922	CB	THR	D	261	5.576	91.479	87.468	1.00	31.51	C
ATOM	11923	OG1	THR	D	261	6.793	92.221	87.603	1.00	30.18	O
ATOM	11924	CG2	THR	D	261	5.407	91.061	86.020	1.00	31.16	C
ATOM	11925	N	LYS	D	262	5.109	94.642	87.547	1.00	34.79	N
ATOM	11926	CA	LYS	D	262	5.168	95.927	86.857	1.00	35.48	C
ATOM	11927	C	LYS	D	262	6.136	95.921	85.682	1.00	34.05	C
ATOM	11928	O	LYS	D	262	7.350	95.847	85.868	1.00	33.80	O
ATOM	11929	CB	LYS	D	262	5.554	97.035	87.844	1.00	37.82	C
ATOM	11930	CG	LYS	D	262	4.572	97.193	88.997	1.00	41.01	C
ATOM	11931	CD	LYS	D	262	4.858	98.445	89.814	1.00	43.82	C
ATOM	11932	CE	LYS	D	262	3.838	98.620	90.934	1.00	45.59	C
ATOM	11933	NZ	LYS	D	262	2.441	98.703	90.420	1.00	46.39	N
ATOM	11934	N	ASN	D	263	5.586	96.014	84.475	1.00	33.89	N
ATOM	11935	CA	ASN	D	263	6.383	96.009	83.247	1.00	34.25	C
ATOM	11936	C	ASN	D	263	6.976	97.382	82.931	1.00	34.38	C
ATOM	11937	O	ASN	D	263	6.580	98.389	83.510	1.00	35.86	O
ATOM	11938	CB	ASN	D	263	5.526	95.542	82.062	1.00	35.42	C
ATOM	11939	CG	ASN	D	263	4.412	96.526	81.710	1.00	37.95	C
ATOM	11940	OD1	ASN	D	263	3.457	96.706	82.465	1.00	39.45	O
ATOM	11941	ND2	ASN	D	263	4.537	97.165	80.557	1.00	39.13	N
ATOM	11942	N	GLY	D	264	7.927	97.417	82.005	1.00	33.29	N
ATOM	11943	CA	GLY	D	264	8.545	98.674	81.638	1.00	32.36	C
ATOM	11944	C	GLY	D	264	10.010	98.473	81.345	1.00	32.44	C
ATOM	11945	O	GLY	D	264	10.496	97.345	81.358	1.00	33.12	O
ATOM	11946	N	ILE	D	265	10.722	99.562	81.087	1.00	33.15	N
ATOM	11947	CA	ILE	D	265	12.144	99.469	80.788	1.00	34.28	C
ATOM	11948	C	ILE	D	265	12.957	99.178	82.046	1.00	34.47	C
ATOM	11949	O	ILE	D	265	14.029	98.572	81.982	1.00	35.86	O
ATOM	11950	CB	ILE	D	265	12.657	100.771	80.135	1.00	34.58	C
ATOM	11951	CG1	ILE	D	265	14.145	100.640	79.813	1.00	35.05	C
ATOM	11952	CG2	ILE	D	265	12.408	101.954	81.062	1.00	35.07	C
ATOM	11953	CD1	ILE	D	265	14.717	101.827	79.072	1.00	37.30	C
ATOM	11954	N	GLU	D	266	12.438	99.601	83.192	1.00	34.79	N
ATOM	11955	CA	GLU	D	266	13.124	99.394	84.462	1.00	36.00	C
ATOM	11956	C	GLU	D	266	13.398	97.903	84.718	1.00	34.07	C
ATOM	11957	O	GLU	D	266	14.521	97.517	85.047	1.00	33.44	O
ATOM	11958	CB	GLU	D	266	12.303	100.026	85.599	1.00	38.82	C
ATOM	11959	CG	GLU	D	266	12.947	99.950	86.979	1.00	46.10	C



ATOM	11960	CD	GLU	D	266	12.390	100.986	87.965	1.00	50.76	C
ATOM	11961	OE1	GLU	D	266	11.152	101.198	87.999	1.00	51.39	O
ATOM	11962	OE2	GLU	D	266	13.197	101.580	88.718	1.00	52.49	O
ATOM	11963	N	PRO	D	267	12.378	97.044	84.576	1.00	32.05	N
ATOM	11964	CA	PRO	D	267	12.631	95.615	84.807	1.00	30.70	C
ATOM	11965	C	PRO	D	267	13.613	95.066	83.760	1.00	29.54	C
ATOM	11966	O	PRO	D	267	14.425	94.181	84.048	1.00	28.49	O
ATOM	11967	CB	PRO	D	267	11.243	94.994	84.675	1.00	31.47	C
ATOM	11968	CG	PRO	D	267	10.326	96.107	85.107	1.00	30.99	C
ATOM	11969	CD	PRO	D	267	10.937	97.307	84.432	1.00	31.46	C
ATOM	11970	N	CYS	D	268	13.533	95.603	82.544	1.00	28.27	N
ATOM	11971	CA	CYS	D	268	14.407	95.173	81.458	1.00	27.71	C
ATOM	11972	C	CYS	D	268	15.860	95.483	81.773	1.00	28.07	C
ATOM	11973	O	CYS	D	268	16.738	94.650	81.561	1.00	28.80	O
ATOM	11974	CB	CYS	D	268	14.017	95.856	80.146	1.00	26.62	C
ATOM	11975	SG	CYS	D	268	12.448	95.306	79.431	1.00	32.18	S
ATOM	11976	N	ILE	D	269	16.115	96.683	82.282	1.00	28.19	N
ATOM	11977	CA	ILE	D	269	17.473	97.083	82.626	1.00	27.48	C
ATOM	11978	C	ILE	D	269	18.034	96.210	83.740	1.00	26.42	C
ATOM	11979	O	ILE	D	269	19.181	95.781	83.680	1.00	29.08	O
ATOM	11980	CB	ILE	D	269	17.524	98.568	83.071	1.00	29.39	C
ATOM	11981	CG1	ILE	D	269	17.207	99.476	81.879	1.00	28.52	C
ATOM	11982	CG2	ILE	D	269	18.897	98.904	83.640	1.00	27.81	C
ATOM	11983	CD1	ILE	D	269	17.045	100.939	82.252	1.00	32.12	C
ATOM	11984	N	ALA	D	270	17.226	95.945	84.757	1.00	25.58	N
ATOM	11985	CA	ALA	D	270	17.669	95.124	85.877	1.00	26.02	C
ATOM	11986	C	ALA	D	270	17.985	93.706	85.417	1.00	26.27	C
ATOM	11987	O	ALA	D	270	19.010	93.135	85.781	1.00	28.27	O
ATOM	11988	CB	ALA	D	270	16.593	95.095	86.961	1.00	27.06	C
ATOM	11989	N	ARG	D	271	17.103	93.135	84.609	1.00	26.94	N
ATOM	11990	CA	ARG	D	271	17.316	91.781	84.123	1.00	27.77	C
ATOM	11991	C	ARG	D	271	18.523	91.709	83.200	1.00	28.69	C
ATOM	11992	O	ARG	D	271	19.283	90.740	83.236	1.00	28.39	O
ATOM	11993	CB	ARG	D	271	16.051	91.272	83.418	1.00	27.82	C
ATOM	11994	CG	ARG	D	271	14.979	90.812	84.399	1.00	25.20	C
ATOM	11995	CD	ARG	D	271	13.664	90.501	83.717	1.00	25.99	C
ATOM	11996	NE	ARG	D	271	12.691	89.952	84.659	1.00	23.13	N
ATOM	11997	CZ	ARG	D	271	12.473	88.653	84.843	1.00	24.59	C
ATOM	11998	NH1	ARG	D	271	13.158	87.756	84.144	1.00	25.81	N
ATOM	11999	NH2	ARG	D	271	11.564	88.249	85.721	1.00	20.36	N
ATOM	12000	N	ALA	D	272	18.708	92.751	82.393	1.00	28.77	N
ATOM	12001	CA	ALA	D	272	19.823	92.806	81.462	1.00	28.13	C
ATOM	12002	C	ALA	D	272	21.142	92.786	82.221	1.00	28.70	C
ATOM	12003	O	ALA	D	272	22.076	92.083	81.835	1.00	29.36	O
ATOM	12004	CB	ALA	D	272	19.729	94.063	80.596	1.00	27.61	C
ATOM	12005	N	LYS	D	273	21.217	93.559	83.301	1.00	27.81	N
ATOM	12006	CA	LYS	D	273	22.434	93.612	84.104	1.00	28.74	C
ATOM	12007	C	LYS	D	273	22.694	92.256	84.736	1.00	27.90	C
ATOM	12008	O	LYS	D	273	23.842	91.844	84.892	1.00	29.94	O
ATOM	12009	CB	LYS	D	273	22.312	94.670	85.208	1.00	29.76	C
ATOM	12010	CG	LYS	D	273	22.266	96.106	84.700	1.00	30.81	C
ATOM	12011	CD	LYS	D	273	22.007	97.076	85.842	1.00	32.62	C
ATOM	12012	CE	LYS	D	273	21.870	98.503	85.345	1.00	34.81	C
ATOM	12013	NZ	LYS	D	273	21.624	99.444	86.473	1.00	34.70	N
ATOM	12014	N	ALA	D	274	21.623	91.563	85.103	1.00	26.88	N
ATOM	12015	CA	ALA	D	274	21.751	90.250	85.719	1.00	26.20	C
ATOM	12016	C	ALA	D	274	22.189	89.200	84.699	1.00	26.31	C
ATOM	12017	O	ALA	D	274	22.919	88.269	85.035	1.00	25.92	O
ATOM	12018	CB	ALA	D	274	20.423	89.840	86.361	1.00	25.89	C
ATOM	12019	N	TYR	D	275	21.752	89.355	83.451	1.00	25.87	N
ATOM	12020	CA	TYR	D	275	22.105	88.396	82.407	1.00	24.89	C
ATOM	12021	C	TYR	D	275	23.483	88.679	81.808	1.00	24.77	C
ATOM	12022	O	TYR	D	275	24.150	87.775	81.302	1.00	24.16	O
ATOM	12023	CB	TYR	D	275	21.070	88.423	81.268	1.00	21.62	C
ATOM	12024	CG	TYR	D	275	19.626	88.198	81.675	1.00	20.04	C
ATOM	12025	CD1	TYR	D	275	19.298	87.442	82.805	1.00	19.43	C
ATOM	12026	CD2	TYR	D	275	18.584	88.713	80.902	1.00	18.08	C
ATOM	12027	CE1	TYR	D	275	17.975	87.212	83.155	1.00	17.39	C
ATOM	12028	CE2	TYR	D	275	17.255	88.481	81.238	1.00	17.44	C
ATOM	12029	CZ	TYR	D	275	16.956	87.734	82.366	1.00	18.18	C
ATOM	12030	OH	TYR	D	275	15.644	87.535	82.715	1.00	13.45	O
ATOM	12031	N	ALA	D	276	23.902	89.937	81.877	1.00	24.61	N
ATOM	12032	CA	ALA	D	276	25.169	90.372	81.303	1.00	24.80	C
ATOM	12033	C	ALA	D	276	26.336	89.389	81.354	1.00	25.64	C
ATOM	12034	O	ALA	D	276	26.926	89.068	80.319	1.00	26.39	O
ATOM	12035	CB	ALA	D	276	25.582	91.693	81.926	1.00	25.78	C
ATOM	12036	N	PRO	D	277	26.683	88.891	82.554	1.00	25.99	N
ATOM	12037	CA	PRO	D	277	27.799	87.946	82.704	1.00	26.85	C
ATOM	12038	C	PRO	D	277	27.606	86.630	81.953	1.00	26.54	C
ATOM	12039	O	PRO	D	277	28.567	85.894	81.715	1.00	25.79	O



ATOM	12040	CB	PRO	D	277	27.865	87.710	84.219	1.00	26.23	C
ATOM	12041	CG	PRO	D	277	27.105	88.879	84.815	1.00	25.75	C
ATOM	12042	CD	PRO	D	277	25.992	89.087	83.839	1.00	25.29	C
ATOM	12043	N	PHE	D	278	26.362	86.345	81.581	1.00	25.13	N
ATOM	12044	CA	PHE	D	278	26.035	85.101	80.894	1.00	24.21	C
ATOM	12045	C	PHE	D	278	25.581	85.298	79.452	1.00	24.05	C
ATOM	12046	O	PHE	D	278	25.080	84.362	78.833	1.00	21.81	O
ATOM	12047	CB	PHE	D	278	24.923	84.389	81.662	1.00	23.81	C
ATOM	12048	CG	PHE	D	278	25.225	84.183	83.116	1.00	25.40	C
ATOM	12049	CD1	PHE	D	278	26.041	83.137	83.532	1.00	27.22	C
ATOM	12050	CD2	PHE	D	278	24.692	85.036	84.076	1.00	27.66	C
ATOM	12051	CE1	PHE	D	278	26.323	82.941	84.891	1.00	26.81	C
ATOM	12052	CE2	PHE	D	278	24.968	84.850	85.435	1.00	27.96	C
ATOM	12053	CZ	PHE	D	278	25.785	83.797	85.840	1.00	26.82	C
ATOM	12054	N	ALA	D	279	25.750	86.501	78.912	1.00	25.09	N
ATOM	12055	CA	ALA	D	279	25.299	86.761	77.548	1.00	26.00	C
ATOM	12056	C	ALA	D	279	26.276	87.548	76.687	1.00	26.44	C
ATOM	12057	O	ALA	D	279	26.777	88.594	77.100	1.00	26.64	O
ATOM	12058	CB	ALA	D	279	23.951	87.479	77.583	1.00	24.86	C
ATOM	12059	N	ASP	D	280	26.528	87.039	75.482	1.00	27.69	N
ATOM	12060	CA	ASP	D	280	27.426	87.698	74.540	1.00	27.80	C
ATOM	12061	C	ASP	D	280	26.725	88.919	73.954	1.00	26.69	C
ATOM	12062	O	ASP	D	280	27.374	89.858	73.491	1.00	26.31	O
ATOM	12063	CB	ASP	D	280	27.824	86.747	73.412	1.00	27.70	C
ATOM	12064	CG	ASP	D	280	28.563	85.529	73.911	1.00	29.78	C
ATOM	12065	OD1	ASP	D	280	29.457	85.687	74.772	1.00	30.90	O
ATOM	12066	OD2	ASP	D	280	28.263	84.413	73.432	1.00	30.54	O
ATOM	12067	N	LEU	D	281	25.394	88.886	73.972	1.00	26.26	N
ATOM	12068	CA	LEU	D	281	24.574	89.985	73.472	1.00	25.70	C
ATOM	12069	C	LEU	D	281	23.277	90.004	74.256	1.00	26.19	C
ATOM	12070	O	LEU	D	281	22.755	88.954	74.639	1.00	27.17	O
ATOM	12071	CB	LEU	D	281	24.263	89.815	71.981	1.00	26.23	C
ATOM	12072	CG	LEU	D	281	25.409	89.937	70.975	1.00	26.49	C
ATOM	12073	CD1	LEU	D	281	25.480	88.687	70.139	1.00	26.67	C
ATOM	12074	CD2	LEU	D	281	25.198	91.145	70.089	1.00	27.43	C
ATOM	12075	N	ILE	D	282	22.762	91.201	74.507	1.00	25.07	N
ATOM	12076	CA	ILE	D	282	21.524	91.341	75.242	1.00	24.32	C
ATOM	12077	C	ILE	D	282	20.502	92.053	74.373	1.00	24.72	C
ATOM	12078	O	ILE	D	282	20.819	92.996	73.654	1.00	24.08	O
ATOM	12079	CB	ILE	D	282	21.754	92.106	76.559	1.00	26.39	C
ATOM	12080	CG1	ILE	D	282	22.748	91.319	77.420	1.00	25.79	C
ATOM	12081	CG2	ILE	D	282	20.432	92.291	77.300	1.00	25.32	C
ATOM	12082	CD1	ILE	D	282	23.076	91.954	78.745	1.00	28.98	C
ATOM	12083	N	TRP	D	283	19.269	91.577	74.436	1.00	26.47	N
ATOM	12084	CA	TRP	D	283	18.196	92.131	73.634	1.00	26.14	C
ATOM	12085	C	TRP	D	283	16.926	92.289	74.454	1.00	26.50	C
ATOM	12086	O	TRP	D	283	16.514	91.371	75.165	1.00	27.07	O
ATOM	12087	CB	TRP	D	283	17.977	91.205	72.424	1.00	25.19	C
ATOM	12088	CG	TRP	D	283	16.607	91.197	71.778	1.00	26.34	C
ATOM	12089	CD1	TRP	D	283	15.703	92.227	71.719	1.00	25.67	C
ATOM	12090	CD2	TRP	D	283	16.038	90.124	71.011	1.00	24.84	C
ATOM	12091	NE1	TRP	D	283	14.614	91.859	70.961	1.00	25.33	N
ATOM	12092	CE2	TRP	D	283	14.795	90.575	70.514	1.00	25.49	C
ATOM	12093	CE3	TRP	D	283	16.464	88.825	70.692	1.00	24.98	C
ATOM	12094	CZ2	TRP	D	283	13.970	89.771	69.710	1.00	26.52	C
ATOM	12095	CZ3	TRP	D	283	15.644	88.025	69.894	1.00	24.14	C
ATOM	12096	CH2	TRP	D	283	14.411	88.505	69.413	1.00	26.20	C
ATOM	12097	N	MET	D	284	16.324	93.469	74.371	1.00	26.59	N
ATOM	12098	CA	MET	D	284	15.079	93.729	75.075	1.00	27.95	C
ATOM	12099	C	MET	D	284	14.033	94.005	74.010	1.00	27.34	C
ATOM	12100	O	MET	D	284	14.278	94.771	73.079	1.00	30.48	O
ATOM	12101	CB	MET	D	284	15.205	94.943	76.011	1.00	28.73	C
ATOM	12102	CG	MET	D	284	14.577	96.223	75.478	1.00	31.21	C
ATOM	12103	SD	MET	D	284	14.529	97.605	76.646	1.00	34.35	S
ATOM	12104	CE	MET	D	284	12.784	97.742	76.935	1.00	30.72	C
ATOM	12105	N	GLU	D	285	12.883	93.357	74.127	1.00	27.03	N
ATOM	12106	CA	GLU	D	285	11.793	93.560	73.185	1.00	28.87	C
ATOM	12107	C	GLU	D	285	11.130	94.884	73.520	1.00	29.57	C
ATOM	12108	O	GLU	D	285	11.032	95.251	74.689	1.00	29.53	O
ATOM	12109	CB	GLU	D	285	10.762	92.438	73.312	1.00	28.80	C
ATOM	12110	CG	GLU	D	285	11.116	91.171	72.568	1.00	29.00	C
ATOM	12111	CD	GLU	D	285	10.943	91.330	71.073	1.00	29.33	C
ATOM	12112	OE1	GLU	D	285	11.835	91.914	70.422	1.00	27.57	O
ATOM	12113	OE2	GLU	D	285	9.899	90.880	70.557	1.00	29.67	O
ATOM	12114	N	THR	D	286	10.676	95.598	72.497	1.00	31.86	N
ATOM	12115	CA	THR	D	286	10.011	96.883	72.701	1.00	33.11	C
ATOM	12116	C	THR	D	286	8.673	96.903	71.964	1.00	33.68	C
ATOM	12117	O	THR	D	286	8.486	96.181	70.984	1.00	32.61	O
ATOM	12118	CB	THR	D	286	10.886	98.057	72.195	1.00	33.26	C
ATOM	12119	OG1	THR	D	286	11.162	97.889	70.801	1.00	33.06	O



ATOM	12120	CG2	THR	D	286	12.205	98.102	72.946	1.00	34.66	C
ATOM	12121	N	GLY	D	287	7.746	97.729	72.445	1.00	34.12	N
ATOM	12122	CA	GLY	D	287	6.438	97.827	71.818	1.00	34.89	C
ATOM	12123	C	GLY	D	287	6.390	98.741	70.599	1.00	35.41	C
ATOM	12124	O	GLY	D	287	5.415	98.723	69.841	1.00	36.73	O
ATOM	12125	N	THR	D	288	7.435	99.543	70.409	1.00	34.24	N
ATOM	12126	CA	THR	D	288	7.515	100.464	69.272	1.00	33.72	C
ATOM	12127	C	THR	D	288	8.980	100.730	68.920	1.00	32.71	C
ATOM	12128	O	THR	D	288	9.869	100.563	69.758	1.00	32.77	O
ATOM	12129	CB	THR	D	288	6.877	101.833	69.594	1.00	33.51	C
ATOM	12130	OG1	THR	D	288	7.696	102.516	70.549	1.00	35.22	O
ATOM	12131	CG2	THR	D	288	5.473	101.668	70.166	1.00	32.96	C
ATOM	12132	N	PRO	D	289	9.252	101.134	67.668	1.00	32.36	N
ATOM	12133	CA	PRO	D	289	10.628	101.422	67.249	1.00	33.28	C
ATOM	12134	C	PRO	D	289	10.975	102.829	67.757	1.00	34.56	C
ATOM	12135	O	PRO	D	289	10.606	103.832	67.142	1.00	33.74	O
ATOM	12136	CB	PRO	D	289	10.537	101.339	65.729	1.00	32.16	C
ATOM	12137	CG	PRO	D	289	9.163	101.883	65.462	1.00	30.71	C
ATOM	12138	CD	PRO	D	289	8.322	101.219	66.526	1.00	31.72	C
ATOM	12139	N	ASP	D	290	11.684	102.891	68.883	1.00	35.40	N
ATOM	12140	CA	ASP	D	290	12.036	104.163	69.515	1.00	35.99	C
ATOM	12141	C	ASP	D	290	13.532	104.298	69.813	1.00	35.53	C
ATOM	12142	O	ASP	D	290	14.069	103.593	70.674	1.00	35.62	O
ATOM	12143	CB	ASP	D	290	11.241	104.289	70.816	1.00	37.83	C
ATOM	12144	CG	ASP	D	290	11.264	105.687	71.385	1.00	40.12	C
ATOM	12145	OD1	ASP	D	290	12.361	106.188	71.723	1.00	41.80	O
ATOM	12146	OD2	ASP	D	290	10.172	106.281	71.496	1.00	40.19	O
ATOM	12147	N	LEU	D	291	14.200	105.216	69.121	1.00	33.99	N
ATOM	12148	CA	LEU	D	291	15.633	105.409	69.321	1.00	34.25	C
ATOM	12149	C	LEU	D	291	16.001	105.921	70.706	1.00	34.37	C
ATOM	12150	O	LEU	D	291	17.090	105.633	71.213	1.00	34.13	O
ATOM	12151	CB	LEU	D	291	16.198	106.366	68.266	1.00	33.47	C
ATOM	12152	CG	LEU	D	291	16.353	105.782	66.863	1.00	34.10	C
ATOM	12153	CD1	LEU	D	291	16.862	106.853	65.913	1.00	32.22	C
ATOM	12154	CD2	LEU	D	291	17.315	104.599	66.914	1.00	31.37	C
ATOM	12155	N	GLU	D	292	15.097	106.682	71.313	1.00	34.44	N
ATOM	12156	CA	GLU	D	292	15.350	107.236	72.635	1.00	35.96	C
ATOM	12157	C	GLU	D	292	15.227	106.149	73.698	1.00	35.21	C
ATOM	12158	O	GLU	D	292	16.015	106.097	74.646	1.00	35.23	O
ATOM	12159	CB	GLU	D	292	14.373	108.379	72.925	1.00	37.90	C
ATOM	12160	CG	GLU	D	292	15.050	109.636	73.447	1.00	40.75	C
ATOM	12161	CD	GLU	D	292	15.806	109.397	74.741	1.00	42.02	C
ATOM	12162	OE1	GLU	D	292	15.157	109.094	75.765	1.00	41.91	O
ATOM	12163	OE2	GLU	D	292	17.052	109.508	74.731	1.00	42.84	O
ATOM	12164	N	ALA	D	293	14.232	105.283	73.540	1.00	34.50	N
ATOM	12165	CA	ALA	D	293	14.039	104.186	74.479	1.00	33.58	C
ATOM	12166	C	ALA	D	293	15.267	103.284	74.378	1.00	33.77	C
ATOM	12167	O	ALA	D	293	15.799	102.815	75.387	1.00	35.49	O
ATOM	12168	CB	ALA	D	293	12.781	103.412	74.124	1.00	33.15	C
ATOM	12169	N	ALA	D	294	15.726	103.060	73.151	1.00	33.22	N
ATOM	12170	CA	ALA	D	294	16.898	102.227	72.916	1.00	34.34	C
ATOM	12171	C	ALA	D	294	18.128	102.834	73.588	1.00	35.61	C
ATOM	12172	O	ALA	D	294	18.966	102.118	74.141	1.00	35.35	O
ATOM	12173	CB	ALA	D	294	17.143	102.077	71.423	1.00	33.76	C
ATOM	12174	N	ARG	D	295	18.239	104.157	73.528	1.00	36.81	N
ATOM	12175	CA	ARG	D	295	19.365	104.851	74.143	1.00	37.21	C
ATOM	12176	C	ARG	D	295	19.286	104.667	75.654	1.00	36.35	C
ATOM	12177	O	ARG	D	295	20.280	104.381	76.320	1.00	35.31	O
ATOM	12178	CB	ARG	D	295	19.307	106.344	73.820	1.00	39.31	C
ATOM	12179	CG	ARG	D	295	20.416	107.150	74.473	1.00	42.41	C
ATOM	12180	CD	ARG	D	295	19.974	108.582	74.736	1.00	45.89	C
ATOM	12181	NE	ARG	D	295	19.497	109.238	73.520	1.00	50.46	N
ATOM	12182	CZ	ARG	D	295	20.243	109.455	72.437	1.00	52.67	C
ATOM	12183	NH1	ARG	D	295	21.517	109.072	72.406	1.00	52.60	N
ATOM	12184	NH2	ARG	D	295	19.711	110.056	71.379	1.00	53.30	N
ATOM	12185	N	GLN	D	296	18.084	104.842	76.185	1.00	36.88	N
ATOM	12186	CA	GLN	D	296	17.844	104.708	77.610	1.00	37.66	C
ATOM	12187	C	GLN	D	296	18.315	103.343	78.101	1.00	37.32	C
ATOM	12188	O	GLN	D	296	19.068	103.244	79.072	1.00	38.23	O
ATOM	12189	CB	GLN	D	296	16.354	104.884	77.890	1.00	39.16	C
ATOM	12190	CG	GLN	D	296	16.037	105.219	79.327	1.00	42.43	C
ATOM	12191	CD	GLN	D	296	14.589	105.613	79.508	1.00	44.86	C
ATOM	12192	OE1	GLN	D	296	14.032	106.357	78.696	1.00	45.78	O
ATOM	12193	NE2	GLN	D	296	13.972	105.131	80.583	1.00	45.40	N
ATOM	12194	N	PHE	D	297	17.870	102.294	77.416	1.00	35.74	N
ATOM	12195	CA	PHE	D	297	18.242	100.932	77.767	1.00	32.61	C
ATOM	12196	C	PHE	D	297	19.740	100.706	77.618	1.00	31.82	C
ATOM	12197	O	PHE	D	297	20.388	100.183	78.522	1.00	31.13	O
ATOM	12198	CB	PHE	D	297	17.492	99.943	76.874	1.00	33.51	C
ATOM	12199	CG	PHE	D	297	17.912	98.510	77.064	1.00	32.97	C



ATOM	12200	CD1	PHE	D	297	17.622	97.835	78.249	1.00	32.89	C
ATOM	12201	CD2	PHE	D	297	18.601	97.838	76.058	1.00	31.54	C
ATOM	12202	CE1	PHE	D	297	18.011	96.506	78.432	1.00	33.71	C
ATOM	12203	CE2	PHE	D	297	18.995	96.508	76.228	1.00	32.87	C
ATOM	12204	CZ	PHE	D	297	18.699	95.840	77.421	1.00	33.19	C
ATOM	12205	N	SER	D	298	20.284	101.107	76.473	1.00	31.97	N
ATOM	12206	CA	SER	D	298	21.705	100.922	76.186	1.00	33.28	C
ATOM	12207	C	SER	D	298	22.635	101.588	77.190	1.00	34.90	C
ATOM	12208	O	SER	D	298	23.565	100.958	77.702	1.00	36.50	O
ATOM	12209	CB	SER	D	298	22.035	101.438	74.783	1.00	33.45	C
ATOM	12210	OG	SER	D	298	23.417	101.279	74.507	1.00	34.97	O
ATOM	12211	N	GLU	D	299	22.389	102.863	77.467	1.00	35.26	N
ATOM	12212	CA	GLU	D	299	23.221	103.600	78.405	1.00	36.94	C
ATOM	12213	C	GLU	D	299	23.169	102.988	79.811	1.00	36.16	C
ATOM	12214	O	GLU	D	299	24.208	102.785	80.450	1.00	35.85	O
ATOM	12215	CB	GLU	D	299	22.792	105.077	78.423	1.00	38.15	C
ATOM	12216	CG	GLU	D	299	22.926	105.761	77.046	1.00	40.99	C
ATOM	12217	CD	GLU	D	299	22.721	107.277	77.080	1.00	43.50	C
ATOM	12218	OE1	GLU	D	299	21.584	107.730	77.352	1.00	44.19	O
ATOM	12219	OE2	GLU	D	299	23.703	108.015	76.830	1.00	42.71	O
ATOM	12220	N	ALA	D	300	21.964	102.676	80.277	1.00	34.53	N
ATOM	12221	CA	ALA	D	300	21.789	102.093	81.603	1.00	35.04	C
ATOM	12222	C	ALA	D	300	22.585	100.809	81.763	1.00	35.83	C
ATOM	12223	O	ALA	D	300	23.185	100.575	82.810	1.00	36.79	O
ATOM	12224	CB	ALA	D	300	20.312	101.821	81.866	1.00	34.88	C
ATOM	12225	N	VAL	D	301	22.582	99.976	80.724	1.00	36.26	N
ATOM	12226	CA	VAL	D	301	23.298	98.706	80.748	1.00	35.95	C
ATOM	12227	C	VAL	D	301	24.803	98.884	80.606	1.00	37.30	C
ATOM	12228	O	VAL	D	301	25.581	98.298	81.360	1.00	38.11	O
ATOM	12229	CB	VAL	D	301	22.814	97.769	79.618	1.00	35.49	C
ATOM	12230	CG1	VAL	D	301	23.681	96.522	79.570	1.00	32.84	C
ATOM	12231	CG2	VAL	D	301	21.359	97.398	79.841	1.00	35.39	C
ATOM	12232	N	LYS	D	302	25.220	99.677	79.628	1.00	38.03	N
ATOM	12233	CA	LYS	D	302	26.642	99.897	79.425	1.00	40.12	C
ATOM	12234	C	LYS	D	302	27.252	100.661	80.589	1.00	40.70	C
ATOM	12235	O	LYS	D	302	28.475	100.757	80.705	1.00	41.24	O
ATOM	12236	CB	LYS	D	302	26.883	100.638	78.112	1.00	40.64	C
ATOM	12237	CG	LYS	D	302	26.655	99.765	76.883	1.00	41.76	C
ATOM	12238	CD	LYS	D	302	26.956	100.522	75.599	1.00	42.37	C
ATOM	12239	CE	LYS	D	302	26.901	99.600	74.392	1.00	43.09	C
ATOM	12240	NZ	LYS	D	302	27.912	98.510	74.493	1.00	41.92	N
ATOM	12241	N	ALA	D	303	26.394	101.199	81.451	1.00	41.42	N
ATOM	12242	CA	ALA	D	303	26.856	101.933	82.623	1.00	42.23	C
ATOM	12243	C	ALA	D	303	27.608	100.978	83.549	1.00	42.84	C
ATOM	12244	O	ALA	D	303	28.557	101.376	84.229	1.00	43.28	O
ATOM	12245	CB	ALA	D	303	25.677	102.548	83.354	1.00	41.70	C
ATOM	12246	N	GLU	D	304	27.180	99.718	83.571	1.00	41.68	N
ATOM	12247	CA	GLU	D	304	27.825	98.709	84.405	1.00	40.93	C
ATOM	12248	C	GLU	D	304	28.639	97.703	83.598	1.00	39.86	C
ATOM	12249	O	GLU	D	304	29.513	97.024	84.138	1.00	39.36	O
ATOM	12250	CB	GLU	D	304	26.783	97.977	85.245	1.00	41.42	C
ATOM	12251	CG	GLU	D	304	26.379	98.745	86.481	1.00	44.99	C
ATOM	12252	CD	GLU	D	304	25.367	98.004	87.316	1.00	47.34	C
ATOM	12253	OE1	GLU	D	304	25.601	96.816	87.623	1.00	48.32	O
ATOM	12254	OE2	GLU	D	304	24.338	98.614	87.670	1.00	50.22	O
ATOM	12255	N	TYR	D	305	28.349	97.614	82.303	1.00	38.80	N
ATOM	12256	CA	TYR	D	305	29.049	96.697	81.409	1.00	37.68	C
ATOM	12257	C	TYR	D	305	29.330	97.424	80.098	1.00	38.17	C
ATOM	12258	O	TYR	D	305	28.590	97.281	79.125	1.00	38.41	O
ATOM	12259	CB	TYR	D	305	28.189	95.457	81.162	1.00	35.69	C
ATOM	12260	CG	TYR	D	305	27.938	94.653	82.416	1.00	34.45	C
ATOM	12261	CD1	TYR	D	305	28.898	93.769	82.901	1.00	34.24	C
ATOM	12262	CD2	TYR	D	305	26.758	94.811	83.146	1.00	33.49	C
ATOM	12263	CE1	TYR	D	305	28.693	93.062	84.083	1.00	35.23	C
ATOM	12264	CE2	TYR	D	305	26.544	94.114	84.326	1.00	33.73	C
ATOM	12265	CZ	TYR	D	305	27.515	93.240	84.792	1.00	36.41	C
ATOM	12266	OH	TYR	D	305	27.318	92.549	85.970	1.00	38.53	O
ATOM	12267	N	PRO	D	306	30.410	98.224	80.066	1.00	38.57	N
ATOM	12268	CA	PRO	D	306	30.855	99.016	78.912	1.00	37.29	C
ATOM	12269	C	PRO	D	306	31.027	98.226	77.616	1.00	36.98	C
ATOM	12270	O	PRO	D	306	30.706	98.723	76.533	1.00	36.58	O
ATOM	12271	CB	PRO	D	306	32.177	99.612	79.394	1.00	37.93	C
ATOM	12272	CG	PRO	D	306	31.970	99.744	80.872	1.00	38.31	C
ATOM	12273	CD	PRO	D	306	31.319	98.425	81.210	1.00	38.27	C
ATOM	12274	N	ASP	D	307	31.532	97.001	77.729	1.00	35.98	N
ATOM	12275	CA	ASP	D	307	31.762	96.159	76.559	1.00	35.74	C
ATOM	12276	C	ASP	D	307	30.587	95.272	76.148	1.00	35.20	C
ATOM	12277	O	ASP	D	307	30.698	94.499	75.193	1.00	36.17	O
ATOM	12278	CB	ASP	D	307	32.985	95.268	76.785	1.00	37.87	C
ATOM	12279	CG	ASP	D	307	34.252	96.063	77.040	1.00	40.11	C



ATOM	12280	OD1	ASP	D	307	34.487	97.054	76.321	1.00	40.34	O
ATOM	12281	OD2	ASP	D	307	35.021	95.685	77.949	1.00	40.40	O
ATOM	12282	N	GLN	D	308	29.467	95.379	76.856	1.00	34.36	N
ATOM	12283	CA	GLN	D	308	28.299	94.560	76.548	1.00	33.44	C
ATOM	12284	C	GLN	D	308	27.611	94.973	75.251	1.00	33.29	C
ATOM	12285	O	GLN	D	308	27.036	96.057	75.160	1.00	34.60	O
ATOM	12286	CB	GLN	D	308	27.293	94.619	77.699	1.00	31.21	C
ATOM	12287	CG	GLN	D	308	26.092	93.694	77.522	1.00	30.09	C
ATOM	12288	CD	GLN	D	308	26.491	92.235	77.344	1.00	28.82	C
ATOM	12289	OE1	GLN	D	308	26.328	91.662	76.259	1.00	28.62	O
ATOM	12290	NE2	GLN	D	308	27.016	91.627	78.407	1.00	24.64	N
ATOM	12291	N	MET	D	309	27.674	94.104	74.247	1.00	32.90	N
ATOM	12292	CA	MET	D	309	27.039	94.385	72.968	1.00	32.55	C
ATOM	12293	C	MET	D	309	25.547	94.094	73.079	1.00	31.87	C
ATOM	12294	O	MET	D	309	25.123	93.301	73.917	1.00	31.80	O
ATOM	12295	CB	MET	D	309	27.656	93.528	71.868	1.00	35.12	C
ATOM	12296	CG	MET	D	309	29.146	93.741	71.680	1.00	37.94	C
ATOM	12297	SD	MET	D	309	29.731	92.998	70.151	1.00	43.92	S
ATOM	12298	CE	MET	D	309	30.122	91.341	70.705	1.00	41.09	C
ATOM	12299	N	LEU	D	310	24.756	94.734	72.229	1.00	30.24	N
ATOM	12300	CA	LEU	D	310	23.313	94.552	72.262	1.00	30.11	C
ATOM	12301	C	LEU	D	310	22.766	94.143	70.897	1.00	28.23	C
ATOM	12302	O	LEU	D	310	23.453	94.262	69.886	1.00	28.17	O
ATOM	12303	CB	LEU	D	310	22.649	95.854	72.713	1.00	30.23	C
ATOM	12304	CG	LEU	D	310	23.308	96.537	73.916	1.00	30.76	C
ATOM	12305	CD1	LEU	D	310	22.667	97.894	74.156	1.00	28.59	C
ATOM	12306	CD2	LEU	D	310	23.177	95.653	75.141	1.00	30.91	C
ATOM	12307	N	ALA	D	311	21.526	93.662	70.880	1.00	27.91	N
ATOM	12308	CA	ALA	D	311	20.872	93.243	69.642	1.00	26.73	C
ATOM	12309	C	ALA	D	311	19.520	93.918	69.591	1.00	25.98	C
ATOM	12310	O	ALA	D	311	18.882	94.101	70.629	1.00	26.57	O
ATOM	12311	CB	ALA	D	311	20.705	91.730	69.617	1.00	27.51	C
ATOM	12312	N	TYR	D	312	19.079	94.295	68.393	1.00	26.06	N
ATOM	12313	CA	TYR	D	312	17.796	94.975	68.258	1.00	25.48	C
ATOM	12314	C	TYR	D	312	16.893	94.391	67.179	1.00	25.71	C
ATOM	12315	O	TYR	D	312	17.333	94.097	66.069	1.00	27.83	O
ATOM	12316	CB	TYR	D	312	18.024	96.469	68.000	1.00	24.34	C
ATOM	12317	CG	TYR	D	312	16.784	97.308	68.197	1.00	23.64	C
ATOM	12318	CD1	TYR	D	312	15.763	97.313	67.248	1.00	23.21	C
ATOM	12319	CD2	TYR	D	312	16.609	98.061	69.359	1.00	22.19	C
ATOM	12320	CE1	TYR	D	312	14.599	98.043	67.451	1.00	21.89	C
ATOM	12321	CE2	TYR	D	312	15.450	98.794	69.572	1.00	20.13	C
ATOM	12322	CZ	TYR	D	312	14.448	98.779	68.614	1.00	21.23	C
ATOM	12323	OH	TYR	D	312	13.291	99.492	68.820	1.00	21.31	O
ATOM	12324	N	ASN	D	313	15.617	94.248	67.516	1.00	26.42	N
ATOM	12325	CA	ASN	D	313	14.628	93.692	66.604	1.00	27.14	C
ATOM	12326	C	ASN	D	313	13.807	94.746	65.860	1.00	27.66	C
ATOM	12327	O	ASN	D	313	12.848	95.290	66.405	1.00	27.15	O
ATOM	12328	CB	ASN	D	313	13.685	92.751	67.379	1.00	25.65	C
ATOM	12329	CG	ASN	D	313	12.488	92.292	66.552	1.00	25.65	C
ATOM	12330	OD1	ASN	D	313	12.527	92.290	65.321	1.00	27.97	O
ATOM	12331	ND2	ASN	D	313	11.424	91.884	67.232	1.00	26.94	N
ATOM	12332	N	CYS	D	314	14.185	95.032	64.617	1.00	28.75	N
ATOM	12333	CA	CYS	D	314	13.441	95.992	63.799	1.00	29.14	C
ATOM	12334	C	CYS	D	314	12.220	95.195	63.323	1.00	29.78	C
ATOM	12335	O	CYS	D	314	12.126	94.796	62.162	1.00	30.47	O
ATOM	12336	CB	CYS	D	314	14.292	96.453	62.605	1.00	28.47	C
ATOM	12337	SG	CYS	D	314	15.890	97.227	63.047	1.00	30.22	S
ATOM	12338	N	SER	D	315	11.292	94.972	64.249	1.00	29.24	N
ATOM	12339	CA	SER	D	315	10.091	94.179	64.012	1.00	29.26	C
ATOM	12340	C	SER	D	315	9.009	94.681	63.069	1.00	29.19	C
ATOM	12341	O	SER	D	315	8.606	95.843	63.110	1.00	28.38	O
ATOM	12342	CB	SER	D	315	9.428	93.845	65.351	1.00	28.92	C
ATOM	12343	OG	SER	D	315	8.179	93.201	65.154	1.00	29.53	O
ATOM	12344	N	PRO	D	316	8.523	93.785	62.198	1.00	28.82	N
ATOM	12345	CA	PRO	D	316	7.467	94.100	61.234	1.00	28.22	C
ATOM	12346	C	PRO	D	316	6.151	94.198	61.999	1.00	29.29	C
ATOM	12347	O	PRO	D	316	5.114	94.543	61.435	1.00	31.24	O
ATOM	12348	CB	PRO	D	316	7.497	92.905	60.284	1.00	28.15	C
ATOM	12349	CG	PRO	D	316	8.946	92.485	60.323	1.00	28.31	C
ATOM	12350	CD	PRO	D	316	9.235	92.555	61.805	1.00	27.95	C
ATOM	12351	N	SER	D	317	6.195	93.870	63.288	1.00	30.30	N
ATOM	12352	CA	SER	D	317	5.006	93.949	64.130	1.00	30.98	C
ATOM	12353	C	SER	D	317	4.733	95.407	64.472	1.00	32.06	C
ATOM	12354	O	SER	D	317	3.754	95.719	65.146	1.00	32.14	O
ATOM	12355	CB	SER	D	317	5.187	93.138	65.415	1.00	32.31	C
ATOM	12356	OG	SER	D	317	5.156	91.744	65.151	1.00	32.34	O
ATOM	12357	N	PHE	D	318	5.624	96.289	64.021	1.00	32.95	N
ATOM	12358	CA	PHE	D	318	5.471	97.727	64.234	1.00	34.25	C
ATOM	12359	C	PHE	D	318	4.967	98.304	62.919	1.00	35.81	C



ATOM	12360	O	PHE	D	318	5.355	97.838	61.845	1.00	36.52	O
ATOM	12361	CB	PHE	D	318	6.808	98.428	64.528	1.00	33.37	C
ATOM	12362	CG	PHE	D	318	7.524	97.938	65.757	1.00	34.33	C
ATOM	12363	CD1	PHE	D	318	6.830	97.652	66.932	1.00	32.95	C
ATOM	12364	CD2	PHE	D	318	8.917	97.825	65.752	1.00	32.37	C
ATOM	12365	CE1	PHE	D	318	7.515	97.263	68.082	1.00	32.98	C
ATOM	12366	CE2	PHE	D	318	9.608	97.439	66.896	1.00	32.18	C
ATOM	12367	CZ	PHE	D	318	8.907	97.157	68.063	1.00	31.01	C
ATOM	12368	N	ASN	D	319	4.105	99.310	63.003	1.00	36.66	N
ATOM	12369	CA	ASN	D	319	3.597	99.979	61.814	1.00	37.54	C
ATOM	12370	C	ASN	D	319	4.549	101.166	61.681	1.00	38.36	C
ATOM	12371	O	ASN	D	319	4.253	102.274	62.131	1.00	40.39	O
ATOM	12372	CB	ASN	D	319	2.162	100.449	62.054	1.00	37.90	C
ATOM	12373	CG	ASN	D	319	1.539	101.084	60.828	1.00	37.48	C
ATOM	12374	OD1	ASN	D	319	0.322	101.263	60.766	1.00	40.08	O
ATOM	12375	ND2	ASN	D	319	2.366	101.433	59.848	1.00	35.19	N
ATOM	12376	N	TRP	D	320	5.700	100.918	61.068	1.00	37.16	N
ATOM	12377	CA	TRP	D	320	6.738	101.928	60.922	1.00	38.56	C
ATOM	12378	C	TRP	D	320	6.361	103.356	60.544	1.00	39.90	C
ATOM	12379	O	TRP	D	320	6.674	104.285	61.288	1.00	40.72	O
ATOM	12380	CB	TRP	D	320	7.830	101.405	59.992	1.00	36.99	C
ATOM	12381	CG	TRP	D	320	8.548	100.241	60.606	1.00	36.55	C
ATOM	12382	CD1	TRP	D	320	8.092	98.955	60.704	1.00	35.97	C
ATOM	12383	CD2	TRP	D	320	9.804	100.275	61.292	1.00	34.96	C
ATOM	12384	NE1	TRP	D	320	8.985	98.189	61.413	1.00	35.91	N
ATOM	12385	CE2	TRP	D	320	10.045	98.973	61.787	1.00	36.26	C
ATOM	12386	CE3	TRP	D	320	10.748	101.280	61.541	1.00	35.16	C
ATOM	12387	CZ2	TRP	D	320	11.195	98.650	62.521	1.00	34.53	C
ATOM	12388	CZ3	TRP	D	320	11.893	100.958	62.271	1.00	35.24	C
ATOM	12389	CH2	TRP	D	320	12.103	99.652	62.752	1.00	35.35	C
ATOM	12390	N	LYS	D	321	5.703	103.558	59.408	1.00	41.45	N
ATOM	12391	CA	LYS	D	321	5.342	104.920	59.028	1.00	42.57	C
ATOM	12392	C	LYS	D	321	4.325	105.563	59.974	1.00	43.47	C
ATOM	12393	O	LYS	D	321	4.080	106.768	59.904	1.00	44.02	O
ATOM	12394	CB	LYS	D	321	4.832	104.961	57.585	1.00	41.71	C
ATOM	12395	CG	LYS	D	321	5.934	104.735	56.559	1.00	42.19	C
ATOM	12396	CD	LYS	D	321	5.464	105.016	55.142	1.00	43.74	C
ATOM	12397	CE	LYS	D	321	5.117	106.487	54.947	1.00	45.22	C
ATOM	12398	NZ	LYS	D	321	6.282	107.374	55.242	1.00	48.32	N
ATOM	12399	N	LYS	D	322	3.744	104.766	60.866	1.00	43.59	N
ATOM	12400	CA	LYS	D	322	2.777	105.287	61.827	1.00	44.27	C
ATOM	12401	C	LYS	D	322	3.502	105.806	63.070	1.00	44.41	C
ATOM	12402	O	LYS	D	322	2.927	106.530	63.882	1.00	44.35	O
ATOM	12403	CB	LYS	D	322	1.781	104.196	62.234	1.00	45.52	C
ATOM	12404	CG	LYS	D	322	0.803	104.631	63.321	1.00	47.34	C
ATOM	12405	CD	LYS	D	322	-0.113	103.495	63.741	1.00	49.43	C
ATOM	12406	CE	LYS	D	322	-1.049	103.927	64.857	1.00	50.47	C
ATOM	12407	NZ	LYS	D	322	-1.976	102.834	65.257	1.00	51.09	N
ATOM	12408	N	HIS	D	323	4.771	105.442	63.206	1.00	44.40	N
ATOM	12409	CA	HIS	D	323	5.563	105.868	64.350	1.00	44.46	C
ATOM	12410	C	HIS	D	323	6.688	106.825	63.972	1.00	44.43	C
ATOM	12411	O	HIS	D	323	6.950	107.796	64.684	1.00	45.74	O
ATOM	12412	CB	HIS	D	323	6.165	104.650	65.063	1.00	46.17	C
ATOM	12413	CG	HIS	D	323	5.164	103.828	65.813	1.00	47.45	C
ATOM	12414	ND1	HIS	D	323	4.478	104.309	66.908	1.00	48.82	N
ATOM	12415	CD2	HIS	D	323	4.724	102.562	65.620	1.00	48.75	C
ATOM	12416	CE1	HIS	D	323	3.658	103.376	67.357	1.00	49.54	C
ATOM	12417	NE2	HIS	D	323	3.787	102.306	66.593	1.00	49.56	N
ATOM	12418	N	LEU	D	324	7.352	106.561	62.853	1.00	42.57	N
ATOM	12419	CA	LEU	D	324	8.465	107.404	62.443	1.00	40.97	C
ATOM	12420	C	LEU	D	324	8.291	108.038	61.072	1.00	41.65	C
ATOM	12421	O	LEU	D	324	7.388	107.679	60.311	1.00	41.18	O
ATOM	12422	CB	LEU	D	324	9.757	106.584	62.456	1.00	40.25	C
ATOM	12423	CG	LEU	D	324	10.041	105.775	63.730	1.00	38.25	C
ATOM	12424	CD1	LEU	D	324	11.261	104.895	63.509	1.00	37.72	C
ATOM	12425	CD2	LEU	D	324	10.260	106.707	64.909	1.00	37.60	C
ATOM	12426	N	ASP	D	325	9.163	108.998	60.774	1.00	41.50	N
ATOM	12427	CA	ASP	D	325	9.152	109.675	59.488	1.00	41.58	C
ATOM	12428	C	ASP	D	325	10.246	109.018	58.662	1.00	40.91	C
ATOM	12429	O	ASP	D	325	11.102	108.322	59.206	1.00	40.73	O
ATOM	12430	CB	ASP	D	325	9.425	111.176	59.650	1.00	42.50	C
ATOM	12431	CG	ASP	D	325	10.711	111.467	60.399	1.00	44.56	C
ATOM	12432	OD1	ASP	D	325	11.774	110.935	60.012	1.00	46.80	O
ATOM	12433	OD2	ASP	D	325	10.662	112.245	61.375	1.00	47.84	O
ATOM	12434	N	ASP	D	326	10.225	109.239	57.354	1.00	40.79	N
ATOM	12435	CA	ASP	D	326	11.209	108.625	56.475	1.00	41.20	C
ATOM	12436	C	ASP	D	326	12.660	108.972	56.808	1.00	40.99	C
ATOM	12437	O	ASP	D	326	13.572	108.199	56.511	1.00	41.27	O
ATOM	12438	CB	ASP	D	326	10.891	108.976	55.017	1.00	40.34	C
ATOM	12439	CG	ASP	D	326	9.475	108.582	54.624	1.00	40.84	C



ATOM	12440	OD1	ASP	D	326	8.977	107.560	55.149	1.00	40.99	O
ATOM	12441	OD2	ASP	D	326	8.862	109.282	53.788	1.00	40.18	O
ATOM	12442	N	ALA	D	327	12.874	110.123	57.436	1.00	40.95	N
ATOM	12443	CA	ALA	D	327	14.226	110.544	57.800	1.00	40.31	C
ATOM	12444	C	ALA	D	327	14.777	109.677	58.930	1.00	39.39	C
ATOM	12445	O	ALA	D	327	15.924	109.227	58.885	1.00	39.69	O
ATOM	12446	CB	ALA	D	327	14.216	112.012	58.224	1.00	41.09	C
ATOM	12447	N	THR	D	328	13.953	109.455	59.947	1.00	38.68	N
ATOM	12448	CA	THR	D	328	14.351	108.644	61.091	1.00	37.78	C
ATOM	12449	C	THR	D	328	14.461	107.185	60.664	1.00	36.64	C
ATOM	12450	O	THR	D	328	15.419	106.498	61.015	1.00	37.37	O
ATOM	12451	CB	THR	D	328	13.325	108.760	62.233	1.00	38.30	C
ATOM	12452	OG1	THR	D	328	13.136	110.141	62.564	1.00	37.89	O
ATOM	12453	CG2	THR	D	328	13.818	108.015	63.461	1.00	37.81	C
ATOM	12454	N	ILE	D	329	13.476	106.727	59.895	1.00	34.51	N
ATOM	12455	CA	ILE	D	329	13.452	105.360	59.388	1.00	32.85	C
ATOM	12456	C	ILE	D	329	14.753	105.018	58.668	1.00	33.46	C
ATOM	12457	O	ILE	D	329	15.304	103.929	58.843	1.00	35.15	O
ATOM	12458	CB	ILE	D	329	12.281	105.158	58.395	1.00	32.23	C
ATOM	12459	CG1	ILE	D	329	10.947	105.334	59.119	1.00	29.64	C
ATOM	12460	CG2	ILE	D	329	12.370	103.778	57.750	1.00	31.31	C
ATOM	12461	CD1	ILE	D	329	9.733	105.141	58.230	1.00	32.74	C
ATOM	12462	N	ALA	D	330	15.240	105.961	57.867	1.00	32.37	N
ATOM	12463	CA	ALA	D	330	16.462	105.777	57.088	1.00	32.27	C
ATOM	12464	C	ALA	D	330	17.748	105.715	57.905	1.00	32.64	C
ATOM	12465	O	ALA	D	330	18.724	105.087	57.490	1.00	32.74	O
ATOM	12466	CB	ALA	D	330	16.576	106.893	56.042	1.00	31.68	C
ATOM	12467	N	LYS	D	331	17.762	106.371	59.059	1.00	32.83	N
ATOM	12468	CA	LYS	D	331	18.962	106.376	59.891	1.00	33.88	C
ATOM	12469	C	LYS	D	331	18.844	105.413	61.063	1.00	32.89	C
ATOM	12470	O	LYS	D	331	19.835	105.104	61.720	1.00	32.41	O
ATOM	12471	CB	LYS	D	331	19.230	107.789	60.426	1.00	35.34	C
ATOM	12472	CG	LYS	D	331	18.132	108.330	61.335	1.00	37.73	C
ATOM	12473	CD	LYS	D	331	18.490	109.709	61.876	1.00	39.97	C
ATOM	12474	CE	LYS	D	331	17.444	110.214	62.860	1.00	41.20	C
ATOM	12475	NZ	LYS	D	331	17.810	111.549	63.419	1.00	42.30	N
ATOM	12476	N	PHE	D	332	17.629	104.938	61.308	1.00	32.71	N
ATOM	12477	CA	PHE	D	332	17.354	104.035	62.422	1.00	33.52	C
ATOM	12478	C	PHE	D	332	18.476	103.061	62.776	1.00	32.82	C
ATOM	12479	O	PHE	D	332	19.057	103.146	63.860	1.00	33.98	O
ATOM	12480	CB	PHE	D	332	16.071	103.246	62.159	1.00	34.22	C
ATOM	12481	CG	PHE	D	332	15.435	102.702	63.406	1.00	36.02	C
ATOM	12482	CD1	PHE	D	332	14.840	103.561	64.326	1.00	35.75	C
ATOM	12483	CD2	PHE	D	332	15.433	101.334	63.667	1.00	35.68	C
ATOM	12484	CE1	PHE	D	332	14.249	103.064	65.488	1.00	37.17	C
ATOM	12485	CE2	PHE	D	332	14.846	100.829	64.826	1.00	35.77	C
ATOM	12486	CZ	PHE	D	332	14.253	101.694	65.737	1.00	35.86	C
ATOM	12487	N	GLN	D	333	18.784	102.139	61.869	1.00	31.66	N
ATOM	12488	CA	GLN	D	333	19.822	101.150	62.127	1.00	30.65	C
ATOM	12489	C	GLN	D	333	21.198	101.745	62.376	1.00	31.37	C
ATOM	12490	O	GLN	D	333	21.953	101.240	63.204	1.00	31.96	O
ATOM	12491	CB	GLN	D	333	19.913	100.146	60.976	1.00	28.97	C
ATOM	12492	CG	GLN	D	333	18.660	99.315	60.778	1.00	28.86	C
ATOM	12493	CD	GLN	D	333	18.970	97.891	60.348	1.00	28.28	C
ATOM	12494	OE1	GLN	D	333	19.920	97.648	59.612	1.00	30.35	O
ATOM	12495	NE2	GLN	D	333	18.156	96.945	60.802	1.00	30.84	N
ATOM	12496	N	LYS	D	334	21.536	102.808	61.656	1.00	32.58	N
ATOM	12497	CA	LYS	D	334	22.837	103.432	61.837	1.00	34.57	C
ATOM	12498	C	LYS	D	334	22.930	104.031	63.235	1.00	34.75	C
ATOM	12499	O	LYS	D	334	23.979	103.978	63.876	1.00	33.57	O
ATOM	12500	CB	LYS	D	334	23.066	104.523	60.789	1.00	36.95	C
ATOM	12501	CG	LYS	D	334	24.474	105.101	60.829	1.00	39.22	C
ATOM	12502	CD	LYS	D	334	24.679	106.167	59.765	1.00	42.62	C
ATOM	12503	CE	LYS	D	334	26.054	106.810	59.900	1.00	42.84	C
ATOM	12504	NZ	LYS	D	334	27.144	105.804	59.778	1.00	44.19	N
ATOM	12505	N	GLU	D	335	21.822	104.595	63.703	1.00	34.70	N
ATOM	12506	CA	GLU	D	335	21.770	105.194	65.030	1.00	35.71	C
ATOM	12507	C	GLU	D	335	21.970	104.110	66.090	1.00	35.07	C
ATOM	12508	O	GLU	D	335	22.864	104.208	66.938	1.00	35.03	O
ATOM	12509	CB	GLU	D	335	20.422	105.893	65.232	1.00	37.14	C
ATOM	12510	CG	GLU	D	335	20.224	107.113	64.341	1.00	42.30	C
ATOM	12511	CD	GLU	D	335	21.087	108.291	64.767	1.00	45.33	C
ATOM	12512	OE1	GLU	D	335	20.801	108.873	65.837	1.00	46.36	O
ATOM	12513	OE2	GLU	D	335	22.050	108.629	64.041	1.00	47.23	O
ATOM	12514	N	LEU	D	336	21.139	103.073	66.028	1.00	33.83	N
ATOM	12515	CA	LEU	D	336	21.224	101.964	66.971	1.00	32.27	C
ATOM	12516	C	LEU	D	336	22.647	101.418	67.060	1.00	31.87	C
ATOM	12517	O	LEU	D	336	23.127	101.073	68.138	1.00	32.75	O
ATOM	12518	CB	LEU	D	336	20.268	100.847	66.547	1.00	32.25	C
ATOM	12519	CG	LEU	D	336	18.776	101.170	66.622	1.00	30.12	C



ATOM	12520	CD1	LEU	D	336	17.971	99.976	66.142	1.00	32.29	C
ATOM	12521	CD2	LEU	D	336	18.404	101.512	68.050	1.00	31.75	C
ATOM	12522	N	ALA	D	337	23.319	101.335	65.918	1.00	31.69	N
ATOM	12523	CA	ALA	D	337	24.685	100.834	65.884	1.00	31.41	C
ATOM	12524	C	ALA	D	337	25.554	101.778	66.699	1.00	32.84	C
ATOM	12525	O	ALA	D	337	26.421	101.352	67.464	1.00	32.72	O
ATOM	12526	CB	ALA	D	337	25.181	100.775	64.449	1.00	29.64	C
ATOM	12527	N	ALA	D	338	25.303	103.070	66.530	1.00	34.43	N
ATOM	12528	CA	ALA	D	338	26.047	104.098	67.235	1.00	36.03	C
ATOM	12529	C	ALA	D	338	25.826	103.996	68.740	1.00	37.10	C
ATOM	12530	O	ALA	D	338	26.567	104.591	69.519	1.00	39.23	O
ATOM	12531	CB	ALA	D	338	25.627	105.471	66.735	1.00	35.66	C
ATOM	12532	N	MET	D	339	24.811	103.241	69.150	1.00	36.43	N
ATOM	12533	CA	MET	D	339	24.525	103.088	70.570	1.00	34.90	C
ATOM	12534	C	MET	D	339	24.829	101.694	71.119	1.00	33.88	C
ATOM	12535	O	MET	D	339	24.356	101.326	72.195	1.00	34.74	O
ATOM	12536	CB	MET	D	339	23.069	103.460	70.852	1.00	35.41	C
ATOM	12537	CG	MET	D	339	22.730	104.876	70.438	1.00	36.34	C
ATOM	12538	SD	MET	D	339	21.077	105.348	70.918	1.00	41.52	S
ATOM	12539	CE	MET	D	339	20.123	104.294	69.812	1.00	37.57	C
ATOM	12540	N	GLY	D	340	25.618	100.921	70.381	1.00	32.16	N
ATOM	12541	CA	GLY	D	340	25.986	99.596	70.849	1.00	31.09	C
ATOM	12542	C	GLY	D	340	25.170	98.413	70.360	1.00	30.03	C
ATOM	12543	O	GLY	D	340	25.473	97.274	70.717	1.00	29.44	O
ATOM	12544	N	PHE	D	341	24.134	98.664	69.566	1.00	29.47	N
ATOM	12545	CA	PHE	D	341	23.308	97.580	69.037	1.00	29.05	C
ATOM	12546	C	PHE	D	341	24.000	97.037	67.792	1.00	28.46	C
ATOM	12547	O	PHE	D	341	23.721	97.470	66.677	1.00	29.49	O
ATOM	12548	CB	PHE	D	341	21.914	98.113	68.705	1.00	29.18	C
ATOM	12549	CG	PHE	D	341	21.135	98.544	69.914	1.00	29.80	C
ATOM	12550	CD1	PHE	D	341	20.534	97.602	70.744	1.00	32.11	C
ATOM	12551	CD2	PHE	D	341	21.020	99.891	70.242	1.00	32.14	C
ATOM	12552	CE1	PHE	D	341	19.827	97.995	71.888	1.00	31.86	C
ATOM	12553	CE2	PHE	D	341	20.315	100.296	71.384	1.00	32.30	C
ATOM	12554	CZ	PHE	D	341	19.718	99.344	72.206	1.00	32.00	C
ATOM	12555	N	LYS	D	342	24.906	96.083	67.997	1.00	28.72	N
ATOM	12556	CA	LYS	D	342	25.691	95.498	66.912	1.00	29.28	C
ATOM	12557	C	LYS	D	342	25.033	94.412	66.057	1.00	28.95	C
ATOM	12558	O	LYS	D	342	25.553	94.051	64.996	1.00	27.35	O
ATOM	12559	CB	LYS	D	342	27.020	94.981	67.467	1.00	30.89	C
ATOM	12560	CG	LYS	D	342	27.862	96.071	68.112	1.00	33.88	C
ATOM	12561	CD	LYS	D	342	28.048	97.242	67.152	1.00	35.75	C
ATOM	12562	CE	LYS	D	342	28.932	98.318	67.750	1.00	37.45	C
ATOM	12563	NZ	LYS	D	342	29.136	99.451	66.801	1.00	38.99	N
ATOM	12564	N	PHE	D	343	23.914	93.867	66.518	1.00	27.07	N
ATOM	12565	CA	PHE	D	343	23.217	92.866	65.725	1.00	26.18	C
ATOM	12566	C	PHE	D	343	21.783	93.329	65.569	1.00	25.26	C
ATOM	12567	O	PHE	D	343	21.035	93.417	66.543	1.00	26.48	O
ATOM	12568	CB	PHE	D	343	23.245	91.479	66.379	1.00	25.16	C
ATOM	12569	CG	PHE	D	343	22.646	90.409	65.510	1.00	24.78	C
ATOM	12570	CD1	PHE	D	343	23.266	90.040	64.317	1.00	24.90	C
ATOM	12571	CD2	PHE	D	343	21.423	89.831	65.835	1.00	24.55	C
ATOM	12572	CE1	PHE	D	343	22.673	89.115	63.456	1.00	24.64	C
ATOM	12573	CE2	PHE	D	343	20.819	88.904	64.983	1.00	24.66	C
ATOM	12574	CZ	PHE	D	343	21.445	88.547	63.791	1.00	26.00	C
ATOM	12575	N	GLN	D	344	21.402	93.645	64.340	1.00	23.84	N
ATOM	12576	CA	GLN	D	344	20.053	94.118	64.086	1.00	26.20	C
ATOM	12577	C	GLN	D	344	19.391	93.193	63.088	1.00	24.19	C
ATOM	12578	O	GLN	D	344	20.057	92.663	62.208	1.00	25.25	O
ATOM	12579	CB	GLN	D	344	20.119	95.560	63.579	1.00	26.96	C
ATOM	12580	CG	GLN	D	344	21.031	96.411	64.467	1.00	27.15	C
ATOM	12581	CD	GLN	D	344	21.102	97.864	64.063	1.00	27.88	C
ATOM	12582	OE1	GLN	D	344	22.022	98.577	64.461	1.00	28.85	O
ATOM	12583	NE2	GLN	D	344	20.128	98.319	63.288	1.00	26.95	N
ATOM	12584	N	PHE	D	345	18.085	92.989	63.227	1.00	23.95	N
ATOM	12585	CA	PHE	D	345	17.385	92.078	62.332	1.00	22.48	C
ATOM	12586	C	PHE	D	345	15.891	92.324	62.214	1.00	22.58	C
ATOM	12587	O	PHE	D	345	15.244	92.770	63.160	1.00	24.84	O
ATOM	12588	CB	PHE	D	345	17.599	90.637	62.812	1.00	22.70	C
ATOM	12589	CG	PHE	D	345	17.255	90.432	64.268	1.00	22.94	C
ATOM	12590	CD1	PHE	D	345	18.123	90.864	65.270	1.00	21.08	C
ATOM	12591	CD2	PHE	D	345	16.036	89.868	64.636	1.00	22.70	C
ATOM	12592	CE1	PHE	D	345	17.780	90.744	66.618	1.00	23.17	C
ATOM	12593	CE2	PHE	D	345	15.681	89.743	65.983	1.00	23.22	C
ATOM	12594	CZ	PHE	D	345	16.556	90.183	66.977	1.00	22.58	C
ATOM	12595	N	ILE	D	346	15.351	92.022	61.039	1.00	22.84	N
ATOM	12596	CA	ILE	D	346	13.922	92.142	60.790	1.00	22.58	C
ATOM	12597	C	ILE	D	346	13.402	90.698	60.851	1.00	23.58	C
ATOM	12598	O	ILE	D	346	13.517	89.929	59.890	1.00	21.35	O
ATOM	12599	CB	ILE	D	346	13.635	92.747	59.403	1.00	22.38	C



ATOM	12600	CG1	ILE	D	346	14.205	94.167	59.332	1.00	23.64	C
ATOM	12601	CG2	ILE	D	346	12.136	92.777	59.152	1.00	22.50	C
ATOM	12602	CD1	ILE	D	346	13.966	94.857	58.003	1.00	22.03	C
ATOM	12603	N	THR	D	347	12.842	90.344	62.006	1.00	22.95	N
ATOM	12604	CA	THR	D	347	12.330	89.008	62.270	1.00	21.89	C
ATOM	12605	C	THR	D	347	11.438	88.335	61.229	1.00	22.17	C
ATOM	12606	O	THR	D	347	11.694	87.192	60.844	1.00	20.29	O
ATOM	12607	CB	THR	D	347	11.574	88.993	63.592	1.00	21.88	C
ATOM	12608	OG1	THR	D	347	10.540	89.981	63.546	1.00	22.12	O
ATOM	12609	CG2	THR	D	347	12.516	89.286	64.749	1.00	18.65	C
ATOM	12610	N	LEU	D	348	10.396	89.027	60.777	1.00	21.83	N
ATOM	12611	CA	LEU	D	348	9.465	88.433	59.821	1.00	23.67	C
ATOM	12612	C	LEU	D	348	9.634	88.862	58.362	1.00	24.85	C
ATOM	12613	O	LEU	D	348	8.669	88.859	57.596	1.00	24.00	O
ATOM	12614	CB	LEU	D	348	8.025	88.704	60.276	1.00	23.22	C
ATOM	12615	CG	LEU	D	348	7.763	88.490	61.773	1.00	24.10	C
ATOM	12616	CD1	LEU	D	348	6.275	88.629	62.078	1.00	21.73	C
ATOM	12617	CD2	LEU	D	348	8.262	87.114	62.181	1.00	21.37	C
ATOM	12618	N	ALA	D	349	10.858	89.212	57.978	1.00	24.47	N
ATOM	12619	CA	ALA	D	349	11.137	89.635	56.610	1.00	25.07	C
ATOM	12620	C	ALA	D	349	10.738	88.571	55.578	1.00	25.03	C
ATOM	12621	O	ALA	D	349	10.121	88.884	54.554	1.00	26.42	O
ATOM	12622	CB	ALA	D	349	12.624	89.976	56.464	1.00	23.93	C
ATOM	12623	N	GLY	D	350	11.089	87.318	55.849	1.00	25.11	N
ATOM	12624	CA	GLY	D	350	10.762	86.237	54.929	1.00	23.13	C
ATOM	12625	C	GLY	D	350	9.277	85.953	54.811	1.00	22.68	C
ATOM	12626	O	GLY	D	350	8.767	85.702	53.714	1.00	23.59	O
ATOM	12627	N	PHE	D	351	8.577	85.977	55.939	1.00	20.67	N
ATOM	12628	CA	PHE	D	351	7.141	85.725	55.937	1.00	22.69	C
ATOM	12629	C	PHE	D	351	6.419	86.741	55.068	1.00	22.21	C
ATOM	12630	O	PHE	D	351	5.572	86.382	54.248	1.00	23.33	O
ATOM	12631	CB	PHE	D	351	6.572	85.802	57.357	1.00	21.09	C
ATOM	12632	CG	PHE	D	351	5.065	85.832	57.409	1.00	22.63	C
ATOM	12633	CD1	PHE	D	351	4.329	84.652	57.424	1.00	22.44	C
ATOM	12634	CD2	PHE	D	351	4.379	87.050	57.452	1.00	22.87	C
ATOM	12635	CE1	PHE	D	351	2.934	84.678	57.484	1.00	22.04	C
ATOM	12636	CE2	PHE	D	351	2.983	87.087	57.511	1.00	20.20	C
ATOM	12637	CZ	PHE	D	351	2.261	85.900	57.529	1.00	23.23	C
ATOM	12638	N	HIS	D	352	6.749	88.014	55.255	1.00	22.63	N
ATOM	12639	CA	HIS	D	352	6.103	89.068	54.487	1.00	20.91	C
ATOM	12640	C	HIS	D	352	6.547	89.085	53.039	1.00	20.13	C
ATOM	12641	O	HIS	D	352	5.731	89.274	52.144	1.00	22.48	O
ATOM	12642	CB	HIS	D	352	6.333	90.427	55.155	1.00	19.08	C
ATOM	12643	CG	HIS	D	352	5.488	90.634	56.373	1.00	16.61	C
ATOM	12644	ND1	HIS	D	352	4.118	90.767	56.307	1.00	16.99	N
ATOM	12645	CD2	HIS	D	352	5.800	90.619	57.691	1.00	18.59	C
ATOM	12646	CE1	HIS	D	352	3.620	90.817	57.531	1.00	16.39	C
ATOM	12647	NE2	HIS	D	352	4.620	90.728	58.390	1.00	17.78	N
ATOM	12648	N	ALA	D	353	7.828	88.868	52.793	1.00	20.46	N
ATOM	12649	CA	ALA	D	353	8.297	88.859	51.417	1.00	20.99	C
ATOM	12650	C	ALA	D	353	7.623	87.707	50.667	1.00	22.91	C
ATOM	12651	O	ALA	D	353	7.176	87.875	49.529	1.00	24.41	O
ATOM	12652	CB	ALA	D	353	9.810	88.708	51.373	1.00	20.72	C
ATOM	12653	N	LEU	D	354	7.529	86.546	51.316	1.00	21.82	N
ATOM	12654	CA	LEU	D	354	6.919	85.373	50.690	1.00	21.98	C
ATOM	12655	C	LEU	D	354	5.408	85.501	50.507	1.00	22.42	C
ATOM	12656	O	LEU	D	354	4.866	85.193	49.440	1.00	23.66	O
ATOM	12657	CB	LEU	D	354	7.242	84.112	51.511	1.00	19.63	C
ATOM	12658	CG	LEU	D	354	6.721	82.759	51.011	1.00	17.73	C
ATOM	12659	CD1	LEU	D	354	7.534	81.623	51.628	1.00	15.08	C
ATOM	12660	CD2	LEU	D	354	5.249	82.614	51.359	1.00	18.27	C
ATOM	12661	N	ASN	D	355	4.720	85.946	51.549	1.00	22.40	N
ATOM	12662	CA	ASN	D	355	3.277	86.080	51.468	1.00	22.40	C
ATOM	12663	C	ASN	D	355	2.873	87.160	50.476	1.00	23.10	O
ATOM	12664	O	ASN	D	355	2.019	86.928	49.621	1.00	22.30	O
ATOM	12665	CB	ASN	D	355	2.699	86.362	52.859	1.00	21.81	C
ATOM	12666	CG	ASN	D	355	2.504	85.088	53.676	1.00	21.69	C
ATOM	12667	OD1	ASN	D	355	1.467	84.425	53.579	1.00	22.69	O
ATOM	12668	ND2	ASN	D	355	3.508	84.731	54.471	1.00	19.48	N
ATOM	12669	N	TYR	D	356	3.498	88.330	50.560	1.00	24.93	N
ATOM	12670	CA	TYR	D	356	3.148	89.401	49.637	1.00	25.22	C
ATOM	12671	C	TYR	D	356	3.445	89.051	48.178	1.00	25.41	C
ATOM	12672	O	TYR	D	356	2.564	89.144	47.319	1.00	25.65	O
ATOM	12673	CB	TYR	D	356	3.871	90.706	49.985	1.00	25.68	C
ATOM	12674	CG	TYR	D	356	3.525	91.790	48.992	1.00	28.79	C
ATOM	12675	CD1	TYR	D	356	2.241	92.338	48.954	1.00	28.52	C
ATOM	12676	CD2	TYR	D	356	4.435	92.182	48.010	1.00	28.89	C
ATOM	12677	CE1	TYR	D	356	1.869	93.239	47.956	1.00	31.14	C
ATOM	12678	CE2	TYR	D	356	4.071	93.085	47.006	1.00	30.02	C
ATOM	12679	CZ	TYR	D	356	2.787	93.604	46.983	1.00	30.37	C



ATOM	12680	OH	TYR	D	356	2.410	94.461	45.971	1.00	32.72	O
ATOM	12681	N	SER	D	357	4.681	88.651	47.900	1.00	24.08	N
ATOM	12682	CA	SER	D	357	5.082	88.308	46.538	1.00	25.87	C
ATOM	12683	C	SER	D	357	4.154	87.308	45.843	1.00	25.28	C
ATOM	12684	O	SER	D	357	3.856	87.448	44.656	1.00	26.26	O
ATOM	12685	CB	SER	D	357	6.499	87.739	46.537	1.00	26.00	C
ATOM	12686	OG	SER	D	357	6.529	86.522	47.260	1.00	25.81	O
ATOM	12687	N	MET	D	358	3.713	86.288	46.571	1.00	24.98	N
ATOM	12688	CA	MET	D	358	2.837	85.283	45.982	1.00	22.05	C
ATOM	12689	C	MET	D	358	1.423	85.812	45.821	1.00	22.36	C
ATOM	12690	O	MET	D	358	0.732	85.473	44.855	1.00	22.84	O
ATOM	12691	CB	MET	D	358	2.826	84.006	46.826	1.00	20.87	C
ATOM	12692	CG	MET	D	358	2.021	82.869	46.205	1.00	19.83	C
ATOM	12693	SD	MET	D	358	2.378	82.607	44.442	1.00	22.73	S
ATOM	12694	CE	MET	D	358	4.046	81.923	44.495	1.00	18.76	C
ATOM	12695	N	PHE	D	359	0.980	86.635	46.765	1.00	22.35	N
ATOM	12696	CA	PHE	D	359	-0.354	87.201	46.653	1.00	23.70	C
ATOM	12697	C	PHE	D	359	-0.401	88.079	45.406	1.00	24.07	C
ATOM	12698	O	PHE	D	359	-1.330	87.997	44.609	1.00	25.37	O
ATOM	12699	CB	PHE	D	359	-0.703	88.075	47.856	1.00	23.92	C
ATOM	12700	CG	PHE	D	359	-2.014	88.780	47.702	1.00	24.80	C
ATOM	12701	CD1	PHE	D	359	-3.208	88.113	47.955	1.00	23.46	C
ATOM	12702	CD2	PHE	D	359	-2.064	90.081	47.199	1.00	25.89	C
ATOM	12703	CE1	PHE	D	359	-4.433	88.725	47.703	1.00	24.22	C
ATOM	12704	CE2	PHE	D	359	-3.288	90.703	46.942	1.00	25.42	C
ATOM	12705	CZ	PHE	D	359	-4.474	90.023	47.193	1.00	24.32	C
ATOM	12706	N	ASP	D	360	0.608	88.927	45.257	1.00	24.63	N
ATOM	12707	CA	ASP	D	360	0.691	89.838	44.121	1.00	26.83	C
ATOM	12708	C	ASP	D	360	0.685	89.067	42.795	1.00	26.88	C
ATOM	12709	O	ASP	D	360	-0.112	89.361	41.903	1.00	27.93	O
ATOM	12710	CB	ASP	D	360	1.952	90.707	44.244	1.00	26.82	C
ATOM	12711	CG	ASP	D	360	2.026	91.792	43.185	1.00	28.32	C
ATOM	12712	OD1	ASP	D	360	1.032	92.524	43.001	1.00	28.38	O
ATOM	12713	OD2	ASP	D	360	3.085	91.920	42.543	1.00	30.71	O
ATOM	12714	N	LEU	D	361	1.557	88.070	42.666	1.00	26.88	N
ATOM	12715	CA	LEU	D	361	1.602	87.285	41.434	1.00	25.70	C
ATOM	12716	C	LEU	D	361	0.271	86.581	41.182	1.00	26.37	C
ATOM	12717	O	LEU	D	361	-0.306	86.685	40.095	1.00	26.49	O
ATOM	12718	CB	LEU	D	361	2.716	86.241	41.494	1.00	25.58	C
ATOM	12719	CG	LEU	D	361	2.743	85.260	40.312	1.00	27.72	C
ATOM	12720	CD1	LEU	D	361	2.958	86.020	38.998	1.00	28.29	C
ATOM	12721	CD2	LEU	D	361	3.850	84.241	40.521	1.00	26.68	C
ATOM	12722	N	ALA	D	362	-0.216	85.875	42.196	1.00	25.16	N
ATOM	12723	CA	ALA	D	362	-1.467	85.135	42.083	1.00	25.05	C
ATOM	12724	C	ALA	D	362	-2.655	86.018	41.714	1.00	24.45	C
ATOM	12725	O	ALA	D	362	-3.519	85.611	40.932	1.00	22.67	O
ATOM	12726	CB	ALA	D	362	-1.748	84.388	43.390	1.00	23.96	C
ATOM	12727	N	TYR	D	363	-2.708	87.217	42.284	1.00	25.58	N
ATOM	12728	CA	TYR	D	363	-3.806	88.130	41.993	1.00	26.84	C
ATOM	12729	C	TYR	D	363	-3.771	88.527	40.519	1.00	26.41	C
ATOM	12730	O	TYR	D	363	-4.762	88.385	39.803	1.00	27.08	O
ATOM	12731	CB	TYR	D	363	-3.715	89.391	42.855	1.00	28.03	C
ATOM	12732	CG	TYR	D	363	-4.860	90.341	42.602	1.00	28.98	C
ATOM	12733	CD1	TYR	D	363	-6.097	90.142	43.213	1.00	30.44	C
ATOM	12734	CD2	TYR	D	363	-4.730	91.400	41.702	1.00	28.73	C
ATOM	12735	CE1	TYR	D	363	-7.180	90.969	42.934	1.00	30.56	C
ATOM	12736	CE2	TYR	D	363	-5.805	92.235	41.412	1.00	30.37	C
ATOM	12737	CZ	TYR	D	363	-7.028	92.012	42.030	1.00	32.16	C
ATOM	12738	OH	TYR	D	363	-8.107	92.813	41.733	1.00	33.22	O
ATOM	12739	N	GLY	D	364	-2.627	89.032	40.071	1.00	26.55	N
ATOM	12740	CA	GLY	D	364	-2.501	89.426	38.680	1.00	25.96	C
ATOM	12741	C	GLY	D	364	-2.780	88.249	37.762	1.00	26.59	C
ATOM	12742	O	GLY	D	364	-3.464	88.385	36.745	1.00	25.10	O
ATOM	12743	N	TYR	D	365	-2.253	87.086	38.139	1.00	25.15	N
ATOM	12744	CA	TYR	D	365	-2.417	85.852	37.374	1.00	25.52	C
ATOM	12745	C	TYR	D	365	-3.890	85.483	37.241	1.00	25.19	C
ATOM	12746	O	TYR	D	365	-4.342	85.043	36.184	1.00	25.70	O
ATOM	12747	CB	TYR	D	365	-1.667	84.717	38.077	1.00	26.26	C
ATOM	12748	CG	TYR	D	365	-1.699	83.376	37.376	1.00	25.81	C
ATOM	12749	CD1	TYR	D	365	-1.070	83.196	36.142	1.00	26.48	C
ATOM	12750	CD2	TYR	D	365	-2.293	82.267	37.981	1.00	24.68	C
ATOM	12751	CE1	TYR	D	365	-1.023	81.941	35.530	1.00	24.52	C
ATOM	12752	CE2	TYR	D	365	-2.250	81.010	37.381	1.00	23.74	C
ATOM	12753	CZ	TYR	D	365	-1.610	80.855	36.156	1.00	25.35	C
ATOM	12754	OH	TYR	D	365	-1.527	79.612	35.574	1.00	25.85	O
ATOM	12755	N	ALA	D	366	-4.632	85.649	38.327	1.00	25.86	N
ATOM	12756	CA	ALA	D	366	-6.053	85.335	38.327	1.00	26.70	C
ATOM	12757	C	ALA	D	366	-6.767	86.252	37.343	1.00	28.00	C
ATOM	12758	O	ALA	D	366	-7.762	85.864	36.740	1.00	28.30	O
ATOM	12759	CB	ALA	D	366	-6.631	85.520	39.728	1.00	25.18	C



ATOM	12760	N	GLN	D	367	-6.242	87.464	37.176	1.00	29.21	N
ATOM	12761	CA	GLN	D	367	-6.850	88.436	36.277	1.00	31.51	C
ATOM	12762	C	GLN	D	367	-6.353	88.364	34.835	1.00	31.35	C
ATOM	12763	O	GLN	D	367	-7.156	88.298	33.908	1.00	32.08	O
ATOM	12764	CB	GLN	D	367	-6.629	89.867	36.797	1.00	34.09	C
ATOM	12765	CG	GLN	D	367	-6.879	90.074	38.291	1.00	36.49	C
ATOM	12766	CD	GLN	D	367	-8.245	89.585	38.746	1.00	38.98	C
ATOM	12767	OE1	GLN	D	367	-9.275	89.978	38.201	1.00	40.91	O
ATOM	12768	NE2	GLN	D	367	-8.256	88.727	39.761	1.00	41.12	N
ATOM	12769	N	ASN	D	368	-5.036	88.367	34.647	1.00	30.78	N
ATOM	12770	CA	ASN	D	368	-4.464	88.369	33.304	1.00	30.41	C
ATOM	12771	C	ASN	D	368	-3.554	87.188	32.944	1.00	30.03	C
ATOM	12772	O	ASN	D	368	-2.750	87.280	32.013	1.00	28.89	O
ATOM	12773	CB	ASN	D	368	-3.690	89.671	33.112	1.00	32.44	C
ATOM	12774	CG	ASN	D	368	-4.447	90.883	33.639	1.00	35.33	C
ATOM	12775	OD1	ASN	D	368	-3.915	91.654	34.444	1.00	37.11	O
ATOM	12776	ND2	ASN	D	368	-5.692	91.058	33.187	1.00	33.82	N
ATOM	12777	N	GLN	D	369	-3.685	86.083	33.668	1.00	27.30	N
ATOM	12778	CA	GLN	D	369	-2.864	84.899	33.423	1.00	27.18	C
ATOM	12779	C	GLN	D	369	-1.390	85.185	33.125	1.00	25.27	C
ATOM	12780	O	GLN	D	369	-0.714	85.846	33.915	1.00	25.63	O
ATOM	12781	CB	GLN	D	369	-3.470	84.052	32.300	1.00	28.08	C
ATOM	12782	CG	GLN	D	369	-4.884	83.583	32.603	1.00	30.57	C
ATOM	12783	CD	GLN	D	369	-5.937	84.594	32.191	1.00	32.71	C
ATOM	12784	OE1	GLN	D	369	-7.012	84.676	32.793	1.00	33.16	O
ATOM	12785	NE2	GLN	D	369	-5.641	85.360	31.147	1.00	34.13	N
ATOM	12786	N	MET	D	370	-0.895	84.704	31.987	1.00	23.79	N
ATOM	12787	CA	MET	D	370	0.517	84.878	31.636	1.00	23.97	C
ATOM	12788	C	MET	D	370	1.110	86.286	31.714	1.00	24.67	C
ATOM	12789	O	MET	D	370	2.284	86.438	32.063	1.00	24.66	O
ATOM	12790	CB	MET	D	370	0.800	84.278	30.256	1.00	23.70	C
ATOM	12791	CG	MET	D	370	0.604	82.765	30.189	1.00	24.41	C
ATOM	12792	SD	MET	D	370	1.300	81.864	31.625	1.00	23.35	S
ATOM	12793	CE	MET	D	370	3.047	82.194	31.446	1.00	21.42	C
ATOM	12794	N	SER	D	371	0.326	87.313	31.398	1.00	25.11	N
ATOM	12795	CA	SER	D	371	0.844	88.683	31.464	1.00	27.62	C
ATOM	12796	C	SER	D	371	1.437	88.976	32.842	1.00	28.06	C
ATOM	12797	O	SER	D	371	2.511	89.568	32.956	1.00	28.66	O
ATOM	12798	CB	SER	D	371	-0.266	89.699	31.166	1.00	28.42	C
ATOM	12799	OG	SER	D	371	-0.673	89.633	29.808	1.00	32.44	O
ATOM	12800	N	ALA	D	372	0.730	88.549	33.883	1.00	27.84	N
ATOM	12801	CA	ALA	D	372	1.167	88.768	35.252	1.00	28.08	C
ATOM	12802	C	ALA	D	372	2.502	88.101	35.560	1.00	27.69	C
ATOM	12803	O	ALA	D	372	3.323	88.657	36.290	1.00	28.39	O
ATOM	12804	CB	ALA	D	372	0.095	88.275	36.230	1.00	26.88	C
ATOM	12805	N	TYR	D	373	2.733	86.913	35.011	1.00	27.67	N
ATOM	12806	CA	TYR	D	373	3.993	86.236	35.287	1.00	27.62	C
ATOM	12807	C	TYR	D	373	5.151	86.832	34.502	1.00	26.43	C
ATOM	12808	O	TYR	D	373	6.249	86.985	35.028	1.00	27.59	O
ATOM	12809	CB	TYR	D	373	3.909	84.743	34.981	1.00	26.30	C
ATOM	12810	CG	TYR	D	373	5.165	84.030	35.411	1.00	25.71	C
ATOM	12811	CD1	TYR	D	373	5.410	83.769	36.759	1.00	25.09	C
ATOM	12812	CD2	TYR	D	373	6.149	83.693	34.485	1.00	24.76	C
ATOM	12813	CE1	TYR	D	373	6.604	83.194	37.173	1.00	25.03	C
ATOM	12814	CE2	TYR	D	373	7.350	83.122	34.888	1.00	25.61	C
ATOM	12815	CZ	TYR	D	373	7.572	82.877	36.232	1.00	25.77	C
ATOM	12816	OH	TYR	D	373	8.768	82.333	36.634	1.00	27.73	O
ATOM	12817	N	VAL	D	374	4.903	87.161	33.240	1.00	27.58	N
ATOM	12818	CA	VAL	D	374	5.932	87.743	32.388	1.00	26.53	C
ATOM	12819	C	VAL	D	374	6.483	89.000	33.046	1.00	27.29	C
ATOM	12820	O	VAL	D	374	7.668	89.305	32.922	1.00	26.65	O
ATOM	12821	CB	VAL	D	374	5.368	88.093	30.995	1.00	26.69	C
ATOM	12822	CG1	VAL	D	374	6.458	88.704	30.119	1.00	25.68	C
ATOM	12823	CG2	VAL	D	374	4.806	86.841	30.351	1.00	25.54	C
ATOM	12824	N	GLU	D	375	5.623	89.730	33.750	1.00	27.84	N
ATOM	12825	CA	GLU	D	375	6.069	90.938	34.438	1.00	29.74	C
ATOM	12826	C	GLU	D	375	7.132	90.585	35.472	1.00	28.42	C
ATOM	12827	O	GLU	D	375	8.127	91.292	35.617	1.00	26.93	O
ATOM	12828	CB	GLU	D	375	4.902	91.629	35.134	1.00	31.15	C
ATOM	12829	CG	GLU	D	375	4.060	92.472	34.209	1.00	38.02	C
ATOM	12830	CD	GLU	D	375	2.947	93.187	34.941	1.00	41.72	C
ATOM	12831	OE1	GLU	D	375	3.213	93.714	36.045	1.00	45.60	O
ATOM	12832	OE2	GLU	D	375	1.815	93.229	34.411	1.00	43.01	O
ATOM	12833	N	LEU	D	376	6.918	89.487	36.190	1.00	26.77	N
ATOM	12834	CA	LEU	D	376	7.879	89.063	37.196	1.00	25.36	C
ATOM	12835	C	LEU	D	376	9.183	88.616	36.537	1.00	24.19	C
ATOM	12836	O	LEU	D	376	10.263	88.997	36.974	1.00	23.95	O
ATOM	12837	CB	LEU	D	376	7.296	87.922	38.036	1.00	25.36	C
ATOM	12838	CG	LEU	D	376	8.250	87.190	38.984	1.00	23.54	C
ATOM	12839	CD1	LEU	D	376	8.924	88.180	39.923	1.00	23.53	C



ATOM	12840	CD2	LEU	D	376	7.463	86.145	39.766	1.00	24.88	C
ATOM	12841	N	GLN	D	377	9.080	87.813	35.483	1.00	23.93	N
ATOM	12842	CA	GLN	D	377	10.271	87.331	34.794	1.00	25.48	C
ATOM	12843	C	GLN	D	377	11.101	88.497	34.262	1.00	26.57	C
ATOM	12844	O	GLN	D	377	12.333	88.483	34.336	1.00	25.67	O
ATOM	12845	CB	GLN	D	377	9.889	86.394	33.641	1.00	24.49	C
ATOM	12846	CG	GLN	D	377	11.099	85.865	32.883	1.00	26.39	C
ATOM	12847	CD	GLN	D	377	10.752	84.779	31.885	1.00	27.72	C
ATOM	12848	OE1	GLN	D	377	11.283	83.667	31.955	1.00	28.37	O
ATOM	12849	NE2	GLN	D	377	9.863	85.093	30.947	1.00	28.03	N
ATOM	12850	N	GLU	D	378	10.422	89.504	33.721	1.00	26.55	N
ATOM	12851	CA	GLU	D	378	11.112	90.677	33.196	1.00	28.24	C
ATOM	12852	C	GLU	D	378	11.827	91.421	34.327	1.00	28.06	C
ATOM	12853	O	GLU	D	378	12.952	91.891	34.155	1.00	28.51	O
ATOM	12854	CB	GLU	D	378	10.122	91.604	32.480	1.00	28.22	C
ATOM	12855	CG	GLU	D	378	9.684	91.088	31.119	1.00	28.52	C
ATOM	12856	CD	GLU	D	378	10.854	90.912	30.172	1.00	30.92	C
ATOM	12857	OE1	GLU	D	378	11.625	91.880	30.013	1.00	33.95	O
ATOM	12858	OE2	GLU	D	378	11.005	89.820	29.585	1.00	29.09	O
ATOM	12859	N	ARG	D	379	11.182	91.531	35.485	1.00	27.05	N
ATOM	12860	CA	ARG	D	379	11.828	92.196	36.608	1.00	27.45	C
ATOM	12861	C	ARG	D	379	13.068	91.399	37.000	1.00	27.90	C
ATOM	12862	O	ARG	D	379	14.104	91.972	37.334	1.00	28.40	O
ATOM	12863	CB	ARG	D	379	10.880	92.306	37.800	1.00	29.26	C
ATOM	12864	CG	ARG	D	379	9.804	93.359	37.629	1.00	31.76	C
ATOM	12865	CD	ARG	D	379	9.291	93.821	38.980	1.00	33.06	C
ATOM	12866	NE	ARG	D	379	8.534	92.781	39.660	1.00	36.66	N
ATOM	12867	CZ	ARG	D	379	7.312	92.398	39.304	1.00	38.95	C
ATOM	12868	NH1	ARG	D	379	6.709	92.976	38.271	1.00	41.53	N
ATOM	12869	NH2	ARG	D	379	6.695	91.436	39.976	1.00	38.98	N
ATOM	12870	N	GLU	D	380	12.959	90.072	36.949	1.00	27.99	N
ATOM	12871	CA	GLU	D	380	14.084	89.206	37.286	1.00	27.44	C
ATOM	12872	C	GLU	D	380	15.241	89.440	36.323	1.00	26.44	C
ATOM	12873	O	GLU	D	380	16.395	89.532	36.740	1.00	25.27	O
ATOM	12874	CB	GLU	D	380	13.658	87.740	37.246	1.00	27.13	C
ATOM	12875	CG	GLU	D	380	12.890	87.299	38.466	1.00	26.77	C
ATOM	12876	CD	GLU	D	380	12.486	85.847	38.387	1.00	27.08	C
ATOM	12877	OE1	GLU	D	380	11.506	85.547	37.673	1.00	27.57	O
ATOM	12878	OE2	GLU	D	380	13.154	85.010	39.029	1.00	24.31	O
ATOM	12879	N	PHE	D	381	14.935	89.524	35.032	1.00	27.62	N
ATOM	12880	CA	PHE	D	381	15.975	89.782	34.034	1.00	29.00	C
ATOM	12881	C	PHE	D	381	16.639	91.120	34.354	1.00	28.25	C
ATOM	12882	O	PHE	D	381	17.859	91.241	34.340	1.00	27.71	O
ATOM	12883	CB	PHE	D	381	15.387	89.847	32.618	1.00	28.04	C
ATOM	12884	CG	PHE	D	381	15.110	88.504	32.007	1.00	28.65	C
ATOM	12885	CD1	PHE	D	381	16.082	87.506	32.007	1.00	29.94	C
ATOM	12886	CD2	PHE	D	381	13.891	88.249	31.391	1.00	29.53	C
ATOM	12887	CE1	PHE	D	381	15.843	86.270	31.398	1.00	30.33	C
ATOM	12888	CE2	PHE	D	381	13.639	87.015	30.776	1.00	30.70	C
ATOM	12889	CZ	PHE	D	381	14.618	86.024	30.781	1.00	30.48	C
ATOM	12890	N	ALA	D	382	15.820	92.121	34.656	1.00	28.08	N
ATOM	12891	CA	ALA	D	382	16.335	93.446	34.970	1.00	29.52	C
ATOM	12892	C	ALA	D	382	17.237	93.421	36.196	1.00	30.65	C
ATOM	12893	O	ALA	D	382	18.286	94.062	36.212	1.00	32.20	O
ATOM	12894	CB	ALA	D	382	15.184	94.415	35.189	1.00	27.94	C
ATOM	12895	N	ALA	D	383	16.828	92.672	37.217	1.00	30.76	N
ATOM	12896	CA	ALA	D	383	17.595	92.577	38.453	1.00	30.16	C
ATOM	12897	C	ALA	D	383	18.968	91.930	38.279	1.00	31.29	C
ATOM	12898	O	ALA	D	383	19.809	92.007	39.179	1.00	31.87	O
ATOM	12899	CB	ALA	D	383	16.792	91.819	39.501	1.00	29.77	C
ATOM	12900	N	GLU	D	384	19.202	91.300	37.130	1.00	32.01	N
ATOM	12901	CA	GLU	D	384	20.482	90.643	36.880	1.00	34.24	C
ATOM	12902	C	GLU	D	384	21.654	91.620	36.897	1.00	35.15	C
ATOM	12903	O	GLU	D	384	22.789	91.231	37.167	1.00	34.46	O
ATOM	12904	CB	GLU	D	384	20.464	89.902	35.540	1.00	34.48	C
ATOM	12905	CG	GLU	D	384	19.443	88.774	35.452	1.00	40.17	C
ATOM	12906	CD	GLU	D	384	19.591	87.939	34.182	1.00	40.63	C
ATOM	12907	OE1	GLU	D	384	19.903	88.517	33.119	1.00	43.23	O
ATOM	12908	OE2	GLU	D	384	19.381	86.709	34.243	1.00	40.91	O
ATOM	12909	N	GLU	D	385	21.387	92.886	36.600	1.00	37.21	N
ATOM	12910	CA	GLU	D	385	22.458	93.875	36.604	1.00	39.62	C
ATOM	12911	C	GLU	D	385	22.825	94.238	38.039	1.00	38.03	C
ATOM	12912	O	GLU	D	385	23.854	94.862	38.288	1.00	38.68	O
ATOM	12913	CB	GLU	D	385	22.044	95.124	35.819	1.00	42.14	C
ATOM	12914	CG	GLU	D	385	20.811	95.820	36.347	1.00	47.68	C
ATOM	12915	CD	GLU	D	385	20.385	96.986	35.469	1.00	52.40	C
ATOM	12916	OE1	GLU	D	385	21.197	97.924	35.286	1.00	52.77	O
ATOM	12917	OE2	GLU	D	385	19.238	96.962	34.961	1.00	53.86	O
ATOM	12918	N	ARG	D	386	21.980	93.834	38.982	1.00	37.21	N
ATOM	12919	CA	ARG	D	386	22.239	94.093	40.393	1.00	36.63	C



ATOM	12920	C	ARG	D	386	22.929	92.882	41.027	1.00	35.77	C
ATOM	12921	O	ARG	D	386	23.358	92.933	42.181	1.00	37.07	O
ATOM	12922	CB	ARG	D	386	20.933	94.393	41.140	1.00	37.84	C
ATOM	12923	CG	ARG	D	386	20.371	95.791	40.903	1.00	38.51	C
ATOM	12924	CD	ARG	D	386	19.190	96.069	41.833	1.00	39.46	C
ATOM	12925	NE	ARG	D	386	17.998	95.314	41.455	1.00	40.69	N
ATOM	12926	CZ	ARG	D	386	16.962	95.098	42.260	1.00	41.57	C
ATOM	12927	NH1	ARG	D	386	16.967	95.575	43.498	1.00	42.98	N
ATOM	12928	NH2	ARG	D	386	15.915	94.412	41.825	1.00	41.81	N
ATOM	12929	N	GLY	D	387	23.028	91.792	40.271	1.00	34.13	N
ATOM	12930	CA	GLY	D	387	23.668	90.592	40.784	1.00	32.05	C
ATOM	12931	C	GLY	D	387	22.763	89.373	40.833	1.00	31.00	C
ATOM	12932	O	GLY	D	387	23.237	88.249	41.011	1.00	31.59	O
ATOM	12933	N	TYR	D	388	21.460	89.589	40.677	1.00	30.64	N
ATOM	12934	CA	TYR	D	388	20.482	88.500	40.708	1.00	30.08	C
ATOM	12935	C	TYR	D	388	20.871	87.425	39.701	1.00	29.72	C
ATOM	12936	O	TYR	D	388	21.273	87.738	38.581	1.00	30.70	O
ATOM	12937	CB	TYR	D	388	19.090	89.035	40.377	1.00	27.93	C
ATOM	12938	CG	TYR	D	388	17.964	88.055	40.627	1.00	28.24	C
ATOM	12939	CD1	TYR	D	388	17.675	87.605	41.916	1.00	26.44	C
ATOM	12940	CD2	TYR	D	388	17.166	87.602	39.579	1.00	27.66	C
ATOM	12941	CE1	TYR	D	388	16.619	86.732	42.155	1.00	26.27	C
ATOM	12942	CE2	TYR	D	388	16.107	86.731	39.808	1.00	28.11	C
ATOM	12943	CZ	TYR	D	388	15.839	86.300	41.097	1.00	26.46	C
ATOM	12944	OH	TYR	D	388	14.792	85.435	41.319	1.00	25.81	O
ATOM	12945	N	THR	D	389	20.740	86.163	40.097	1.00	28.89	N
ATOM	12946	CA	THR	D	389	21.104	85.046	39.226	1.00	27.21	C
ATOM	12947	C	THR	D	389	20.057	83.932	39.147	1.00	25.62	C
ATOM	12948	O	THR	D	389	20.168	83.028	38.317	1.00	27.84	O
ATOM	12949	CB	THR	D	389	22.426	84.408	39.693	1.00	27.04	C
ATOM	12950	OG1	THR	D	389	22.261	83.900	41.024	1.00	26.27	O
ATOM	12951	CG2	THR	D	389	23.550	85.438	39.687	1.00	25.59	C
ATOM	12952	N	ALA	D	390	19.044	83.995	40.002	1.00	24.67	N
ATOM	12953	CA	ALA	D	390	18.009	82.964	40.029	1.00	24.35	C
ATOM	12954	C	ALA	D	390	17.144	82.879	38.768	1.00	25.19	C
ATOM	12955	O	ALA	D	390	16.334	81.961	38.635	1.00	24.01	O
ATOM	12956	CB	ALA	D	390	17.131	83.155	41.246	1.00	21.13	C
ATOM	12957	N	THR	D	391	17.307	83.830	37.849	1.00	26.73	N
ATOM	12958	CA	THR	D	391	16.538	83.826	36.605	1.00	26.43	C
ATOM	12959	C	THR	D	391	16.813	82.507	35.887	1.00	27.01	C
ATOM	12960	O	THR	D	391	15.919	81.900	35.294	1.00	28.51	O
ATOM	12961	CB	THR	D	391	16.953	84.987	35.673	1.00	28.38	C
ATOM	12962	OG1	THR	D	391	16.858	86.235	36.373	1.00	26.21	O
ATOM	12963	CG2	THR	D	391	16.038	85.035	34.464	1.00	29.53	C
ATOM	12964	N	LYS	D	392	18.067	82.078	35.937	1.00	26.20	N
ATOM	12965	CA	LYS	D	392	18.476	80.825	35.327	1.00	26.57	C
ATOM	12966	C	LYS	D	392	18.376	79.802	36.452	1.00	25.48	C
ATOM	12967	O	LYS	D	392	19.380	79.390	37.031	1.00	25.20	O
ATOM	12968	CB	LYS	D	392	19.911	80.944	34.821	1.00	28.58	C
ATOM	12969	CG	LYS	D	392	20.152	82.245	34.061	1.00	33.12	C
ATOM	12970	CD	LYS	D	392	21.080	82.069	32.872	1.00	37.44	C
ATOM	12971	CE	LYS	D	392	22.500	81.732	33.287	1.00	39.95	C
ATOM	12972	NZ	LYS	D	392	23.365	81.494	32.094	1.00	41.85	N
ATOM	12973	N	HIS	D	393	17.142	79.421	36.763	1.00	24.51	N
ATOM	12974	CA	HIS	D	393	16.849	78.487	37.843	1.00	24.39	C
ATOM	12975	C	HIS	D	393	17.579	77.144	37.851	1.00	23.38	C
ATOM	12976	O	HIS	D	393	17.847	76.605	38.922	1.00	24.31	O
ATOM	12977	CB	HIS	D	393	15.334	78.253	37.926	1.00	24.41	C
ATOM	12978	CG	HIS	D	393	14.697	77.888	36.618	1.00	27.75	C
ATOM	12979	ND1	HIS	D	393	13.781	78.701	35.982	1.00	27.09	N
ATOM	12980	CD2	HIS	D	393	14.816	76.781	35.845	1.00	26.92	C
ATOM	12981	CE1	HIS	D	393	13.362	78.110	34.877	1.00	27.28	C
ATOM	12982	NE2	HIS	D	393	13.974	76.943	34.771	1.00	26.49	N
ATOM	12983	N	GLN	D	394	17.908	76.606	36.680	1.00	22.77	N
ATOM	12984	CA	GLN	D	394	18.595	75.320	36.611	1.00	22.96	C
ATOM	12985	C	GLN	D	394	19.956	75.356	37.314	1.00	25.03	C
ATOM	12986	O	GLN	D	394	20.206	74.570	38.234	1.00	25.51	O
ATOM	12987	CB	GLN	D	394	18.771	74.889	35.150	1.00	22.49	C
ATOM	12988	CG	GLN	D	394	17.468	74.861	34.350	1.00	24.18	C
ATOM	12989	CD	GLN	D	394	16.498	73.770	34.803	1.00	25.02	C
ATOM	12990	OE1	GLN	D	394	16.506	73.343	35.960	1.00	22.79	O
ATOM	12991	NE2	GLN	D	394	15.641	73.332	33.887	1.00	26.19	N
ATOM	12992	N	ARG	D	395	20.834	76.263	36.888	1.00	23.35	N
ATOM	12993	CA	ARG	D	395	22.156	76.377	37.495	1.00	22.43	C
ATOM	12994	C	ARG	D	395	22.055	76.885	38.932	1.00	21.87	C
ATOM	12995	O	ARG	D	395	22.861	76.529	39.789	1.00	22.16	O
ATOM	12996	CB	ARG	D	395	23.044	77.323	36.676	1.00	24.24	C
ATOM	12997	CG	ARG	D	395	22.414	78.683	36.389	1.00	25.46	C
ATOM	12998	CD	ARG	D	395	23.475	79.779	36.346	1.00	25.64	C
ATOM	12999	NE	ARG	D	395	24.150	79.914	37.634	1.00	24.96	N



ATOM	13000	CZ	ARG	D	395	23.553	80.321	38.754	1.00	26.05	C
ATOM	13001	NH1	ARG	D	395	22.262	80.640	38.749	1.00	23.66	N
ATOM	13002	NH2	ARG	D	395	24.243	80.395	39.888	1.00	23.84	N
ATOM	13003	N	GLU	D	396	21.055	77.717	39.193	1.00	21.80	N
ATOM	13004	CA	GLU	D	396	20.858	78.267	40.528	1.00	21.79	C
ATOM	13005	C	GLU	D	396	20.693	77.152	41.545	1.00	23.27	C
ATOM	13006	O	GLU	D	396	21.159	77.249	42.682	1.00	22.48	O
ATOM	13007	CB	GLU	D	396	19.601	79.129	40.559	1.00	21.93	C
ATOM	13008	CG	GLU	D	396	19.355	79.847	41.875	1.00	22.42	C
ATOM	13009	CD	GLU	D	396	20.343	80.975	42.119	1.00	24.42	C
ATOM	13010	OE1	GLU	D	396	20.949	81.456	41.137	1.00	23.83	O
ATOM	13011	OE2	GLU	D	396	20.501	81.390	43.285	1.00	24.18	O
ATOM	13012	N	VAL	D	397	20.024	76.086	41.123	1.00	21.73	N
ATOM	13013	CA	VAL	D	397	19.749	74.972	42.011	1.00	21.94	C
ATOM	13014	C	VAL	D	397	20.769	73.833	41.885	1.00	21.89	C
ATOM	13015	O	VAL	D	397	20.558	72.734	42.403	1.00	22.22	O
ATOM	13016	CB	VAL	D	397	18.298	74.481	41.775	1.00	20.51	C
ATOM	13017	CG1	VAL	D	397	18.205	73.725	40.473	1.00	20.04	C
ATOM	13018	CG2	VAL	D	397	17.831	73.661	42.930	1.00	26.32	C
ATOM	13019	N	GLY	D	398	21.871	74.101	41.183	1.00	21.56	N
ATOM	13020	CA	GLY	D	398	22.927	73.112	41.049	1.00	19.56	C
ATOM	13021	C	GLY	D	398	22.957	72.130	39.891	1.00	20.96	C
ATOM	13022	O	GLY	D	398	23.711	71.155	39.954	1.00	19.82	O
ATOM	13023	N	ALA	D	399	22.168	72.363	38.842	1.00	20.64	N
ATOM	13024	CA	ALA	D	399	22.159	71.461	37.687	1.00	20.41	C
ATOM	13025	C	ALA	D	399	23.569	71.331	37.128	1.00	20.35	C
ATOM	13026	O	ALA	D	399	23.992	70.248	36.731	1.00	21.32	O
ATOM	13027	CB	ALA	D	399	21.212	71.986	36.597	1.00	18.63	C
ATOM	13028	N	GLY	D	400	24.291	72.445	37.099	1.00	21.38	N
ATOM	13029	CA	GLY	D	400	25.649	72.429	36.590	1.00	21.23	C
ATOM	13030	C	GLY	D	400	26.597	71.728	37.543	1.00	22.29	C
ATOM	13031	O	GLY	D	400	27.591	71.131	37.117	1.00	22.78	O
ATOM	13032	N	TYR	D	401	26.295	71.793	38.837	1.00	22.60	N
ATOM	13033	CA	TYR	D	401	27.138	71.149	39.837	1.00	22.48	C
ATOM	13034	C	TYR	D	401	27.035	69.629	39.730	1.00	22.35	C
ATOM	13035	O	TYR	D	401	28.044	68.919	39.771	1.00	23.74	O
ATOM	13036	CB	TYR	D	401	26.737	71.585	41.248	1.00	21.27	C
ATOM	13037	CG	TYR	D	401	27.595	70.960	42.323	1.00	20.82	C
ATOM	13038	CD1	TYR	D	401	28.929	71.347	42.493	1.00	18.59	C
ATOM	13039	CD2	TYR	D	401	27.087	69.956	43.150	1.00	19.99	C
ATOM	13040	CE1	TYR	D	401	29.738	70.748	43.459	1.00	18.73	C
ATOM	13041	CE2	TYR	D	401	27.886	69.347	44.122	1.00	21.53	C
ATOM	13042	CZ	TYR	D	401	29.212	69.747	44.268	1.00	20.08	C
ATOM	13043	OH	TYR	D	401	30.007	69.131	45.203	1.00	18.61	O
ATOM	13044	N	PHE	D	402	25.819	69.122	39.589	1.00	21.23	N
ATOM	13045	CA	PHE	D	402	25.658	67.681	39.482	1.00	20.85	C
ATOM	13046	C	PHE	D	402	26.124	67.142	38.131	1.00	20.14	C
ATOM	13047	O	PHE	D	402	26.488	65.965	38.017	1.00	19.53	O
ATOM	13048	CB	PHE	D	402	24.216	67.282	39.803	1.00	20.41	C
ATOM	13049	CG	PHE	D	402	23.927	67.264	41.284	1.00	20.09	C
ATOM	13050	CD1	PHE	D	402	23.615	68.437	41.962	1.00	17.93	C
ATOM	13051	CD2	PHE	D	402	24.068	66.082	42.018	1.00	19.34	C
ATOM	13052	CE1	PHE	D	402	23.455	68.437	43.349	1.00	18.66	C
ATOM	13053	CE2	PHE	D	402	23.911	66.072	43.402	1.00	17.85	C
ATOM	13054	CZ	PHE	D	402	23.606	67.251	44.069	1.00	17.10	C
ATOM	13055	N	ASP	D	403	26.133	68.004	37.116	1.00	19.58	N
ATOM	13056	CA	ASP	D	403	26.623	67.600	35.804	1.00	22.47	C
ATOM	13057	C	ASP	D	403	28.115	67.351	35.979	1.00	21.98	C
ATOM	13058	O	ASP	D	403	28.681	66.430	35.390	1.00	22.36	O
ATOM	13059	CB	ASP	D	403	26.412	68.702	34.757	1.00	23.48	C
ATOM	13060	CG	ASP	D	403	25.101	68.548	33.999	1.00	26.83	C
ATOM	13061	OD1	ASP	D	403	24.440	67.497	34.150	1.00	25.09	O
ATOM	13062	OD2	ASP	D	403	24.741	69.477	33.240	1.00	28.58	O
ATOM	13063	N	ARG	D	404	28.742	68.180	36.808	1.00	23.44	N
ATOM	13064	CA	ARG	D	404	30.168	68.054	37.084	1.00	24.24	C
ATOM	13065	C	ARG	D	404	30.426	66.706	37.763	1.00	23.43	C
ATOM	13066	O	ARG	D	404	31.336	65.971	37.383	1.00	23.30	O
ATOM	13067	CB	ARG	D	404	30.626	69.215	37.976	1.00	27.50	C
ATOM	13068	CG	ARG	D	404	32.132	69.291	38.190	1.00	32.11	C
ATOM	13069	CD	ARG	D	404	32.881	69.187	36.869	1.00	36.45	C
ATOM	13070	NE	ARG	D	404	34.323	69.295	37.049	1.00	40.57	N
ATOM	13071	CZ	ARG	D	404	34.965	70.439	37.258	1.00	42.43	C
ATOM	13072	NH1	ARG	D	404	34.294	71.584	37.311	1.00	43.24	N
ATOM	13073	NH2	ARG	D	404	36.281	70.435	37.416	1.00	44.27	N
ATOM	13074	N	ILE	D	405	29.607	66.377	38.758	1.00	21.88	N
ATOM	13075	CA	ILE	D	405	29.741	65.107	39.460	1.00	20.55	C
ATOM	13076	C	ILE	D	405	29.576	63.957	38.460	1.00	21.82	C
ATOM	13077	O	ILE	D	405	30.391	63.037	38.419	1.00	20.94	O
ATOM	13078	CB	ILE	D	405	28.663	64.955	40.575	1.00	20.48	C
ATOM	13079	CG1	ILE	D	405	28.881	66.008	41.669	1.00	19.56	C



ATOM	13080	CG2	ILE	D	405	28.712	63.542	41.164	1.00	19.50	C
ATOM	13081	CD1	ILE	D	405	27.860	65.964	42.803	1.00	18.35	C
ATOM	13082	N	ALA	D	406	28.522	64.017	37.649	1.00	22.33	N
ATOM	13083	CA	ALA	D	406	28.265	62.963	36.666	1.00	22.45	C
ATOM	13084	C	ALA	D	406	29.433	62.768	35.696	1.00	21.50	C
ATOM	13085	O	ALA	D	406	29.862	61.639	35.458	1.00	21.24	O
ATOM	13086	CB	ALA	D	406	26.973	63.266	35.886	1.00	20.62	C
ATOM	13087	N	THR	D	407	29.950	63.858	35.135	1.00	22.67	N
ATOM	13088	CA	THR	D	407	31.072	63.741	34.199	1.00	23.32	C
ATOM	13089	C	THR	D	407	32.355	63.317	34.906	1.00	22.63	C
ATOM	13090	O	THR	D	407	33.290	62.848	34.268	1.00	24.38	O
ATOM	13091	CB	THR	D	407	31.329	65.058	33.430	1.00	21.95	C
ATOM	13092	OG1	THR	D	407	31.534	66.126	34.357	1.00	25.93	O
ATOM	13093	CG2	THR	D	407	30.148	65.391	32.532	1.00	21.20	C
ATOM	13094	N	THR	D	408	32.403	63.480	36.224	1.00	23.79	N
ATOM	13095	CA	THR	D	408	33.579	63.066	36.989	1.00	23.28	C
ATOM	13096	C	THR	D	408	33.522	61.552	37.152	1.00	25.26	C
ATOM	13097	O	THR	D	408	34.543	60.867	37.072	1.00	26.88	O
ATOM	13098	CB	THR	D	408	33.605	63.715	38.386	1.00	22.36	C
ATOM	13099	OG1	THR	D	408	33.734	65.132	38.247	1.00	23.87	O
ATOM	13100	CG2	THR	D	408	34.770	63.186	39.213	1.00	21.75	C
ATOM	13101	N	VAL	D	409	32.314	61.040	37.379	1.00	25.42	N
ATOM	13102	CA	VAL	D	409	32.088	59.610	37.547	1.00	25.55	C
ATOM	13103	C	VAL	D	409	32.210	58.897	36.202	1.00	27.62	C
ATOM	13104	O	VAL	D	409	32.665	57.756	36.125	1.00	28.27	O
ATOM	13105	CB	VAL	D	409	30.678	59.347	38.120	1.00	25.26	C
ATOM	13106	CG1	VAL	D	409	30.345	57.856	38.054	1.00	23.32	C
ATOM	13107	CG2	VAL	D	409	30.604	59.847	39.550	1.00	24.75	C
ATOM	13108	N	ASP	D	410	31.786	59.579	35.147	1.00	29.01	N
ATOM	13109	CA	ASP	D	410	31.834	59.033	33.798	1.00	32.16	C
ATOM	13110	C	ASP	D	410	31.836	60.190	32.814	1.00	33.71	C
ATOM	13111	O	ASP	D	410	30.792	60.749	32.494	1.00	33.84	O
ATOM	13112	CB	ASP	D	410	30.618	58.131	33.547	1.00	34.21	C
ATOM	13113	CG	ASP	D	410	30.467	57.731	32.085	1.00	36.06	C
ATOM	13114	OD1	ASP	D	410	31.377	58.025	31.277	1.00	36.78	O
ATOM	13115	OD2	ASP	D	410	29.430	57.116	31.745	1.00	38.88	O
ATOM	13116	N	PRO	D	411	33.023	60.580	32.333	1.00	36.42	N
ATOM	13117	CA	PRO	D	411	33.111	61.691	31.376	1.00	37.04	C
ATOM	13118	C	PRO	D	411	32.349	61.454	30.068	1.00	37.88	C
ATOM	13119	O	PRO	D	411	31.979	62.408	29.380	1.00	37.66	O
ATOM	13120	CB	PRO	D	411	34.621	61.851	31.164	1.00	36.10	C
ATOM	13121	CG	PRO	D	411	35.172	60.487	31.491	1.00	37.40	C
ATOM	13122	CD	PRO	D	411	34.362	60.080	32.692	1.00	36.00	C
ATOM	13123	N	ASN	D	412	32.100	60.189	29.738	1.00	38.06	N
ATOM	13124	CA	ASN	D	412	31.387	59.855	28.504	1.00	40.12	C
ATOM	13125	C	ASN	D	412	29.877	59.679	28.690	1.00	40.13	C
ATOM	13126	O	ASN	D	412	29.186	59.196	27.791	1.00	39.75	O
ATOM	13127	CB	ASN	D	412	31.985	58.587	27.891	1.00	39.89	C
ATOM	13128	CG	ASN	D	412	33.494	58.664	27.769	1.00	40.27	C
ATOM	13129	OD1	ASN	D	412	34.032	59.606	27.188	1.00	38.91	O
ATOM	13130	ND2	ASN	D	412	34.186	57.672	28.321	1.00	40.55	N
ATOM	13131	N	SER	D	413	29.373	60.080	29.853	1.00	40.06	N
ATOM	13132	CA	SER	D	413	27.951	59.975	30.155	1.00	39.80	C
ATOM	13133	C	SER	D	413	27.094	60.726	29.145	1.00	40.97	C
ATOM	13134	O	SER	D	413	27.294	61.922	28.911	1.00	41.40	O
ATOM	13135	CB	SER	D	413	27.662	60.528	31.551	1.00	40.13	C
ATOM	13136	OG	SER	D	413	26.279	60.805	31.706	1.00	39.54	O
ATOM	13137	N	SER	D	414	26.128	60.024	28.558	1.00	40.48	N
ATOM	13138	CA	SER	D	414	25.238	60.641	27.584	1.00	40.16	C
ATOM	13139	C	SER	D	414	23.946	61.145	28.231	1.00	39.58	C
ATOM	13140	O	SER	D	414	22.939	61.326	27.548	1.00	40.74	O
ATOM	13141	CB	SER	D	414	24.917	59.652	26.454	1.00	38.80	C
ATOM	13142	OG	SER	D	414	24.370	58.444	26.949	1.00	41.21	O
ATOM	13143	N	THR	D	415	23.981	61.388	29.543	1.00	38.69	N
ATOM	13144	CA	THR	D	415	22.796	61.865	30.248	1.00	37.92	C
ATOM	13145	C	THR	D	415	23.003	63.110	31.111	1.00	38.19	C
ATOM	13146	O	THR	D	415	22.412	63.226	32.185	1.00	38.80	O
ATOM	13147	CB	THR	D	415	22.184	60.752	31.135	1.00	38.53	C
ATOM	13148	OG1	THR	D	415	23.167	60.272	32.058	1.00	36.87	O
ATOM	13149	CG2	THR	D	415	21.695	59.593	30.279	1.00	38.20	C
ATOM	13150	N	THR	D	416	23.831	64.040	30.643	1.00	37.27	N
ATOM	13151	CA	THR	D	416	24.077	65.282	31.376	1.00	37.74	C
ATOM	13152	C	THR	D	416	22.856	66.191	31.214	1.00	38.20	C
ATOM	13153	O	THR	D	416	22.108	66.044	30.248	1.00	37.97	O
ATOM	13154	CB	THR	D	416	25.348	65.986	30.863	1.00	37.81	C
ATOM	13155	OG1	THR	D	416	25.338	66.020	29.429	1.00	37.20	O
ATOM	13156	CG2	THR	D	416	26.587	65.239	31.342	1.00	37.42	C
ATOM	13157	N	ALA	D	417	22.667	67.132	32.141	1.00	38.27	N
ATOM	13158	CA	ALA	D	417	21.491	68.011	32.138	1.00	38.96	C
ATOM	13159	C	ALA	D	417	21.511	69.356	31.401	1.00	40.89	C



ATOM	13160	O	ALA	D	417	20.621	69.631	30.588	1.00	41.49	O
ATOM	13161	CB	ALA	D	417	21.042	68.244	33.582	1.00	38.14	C
ATOM	13162	N	LEU	D	418	22.491	70.206	31.693	1.00	41.49	N
ATOM	13163	CA	LEU	D	418	22.552	71.525	31.059	1.00	41.65	C
ATOM	13164	C	LEU	D	418	22.704	71.518	29.535	1.00	41.44	C
ATOM	13165	O	LEU	D	418	22.202	72.419	28.857	1.00	41.72	O
ATOM	13166	CB	LEU	D	418	23.664	72.369	31.700	1.00	41.16	C
ATOM	13167	CG	LEU	D	418	23.429	72.772	33.165	1.00	41.43	C
ATOM	13168	CD1	LEU	D	418	24.578	73.645	33.641	1.00	40.21	C
ATOM	13169	CD2	LEU	D	418	22.103	73.525	33.305	1.00	40.10	C
ATOM	13170	N	THR	D	419	23.386	70.514	28.989	1.00	41.00	N
ATOM	13171	CA	THR	D	419	23.553	70.436	27.540	1.00	39.91	C
ATOM	13172	C	THR	D	419	22.240	70.020	26.877	1.00	39.83	C
ATOM	13173	O	THR	D	419	21.737	68.912	27.089	1.00	38.77	O
ATOM	13174	CB	THR	D	419	24.659	69.439	27.148	1.00	39.45	C
ATOM	13175	OG1	THR	D	419	25.918	69.917	27.636	1.00	39.11	O
ATOM	13176	CG2	THR	D	419	24.736	69.291	25.630	1.00	39.07	C
ATOM	13177	N	GLY	D	420	21.690	70.928	26.077	1.00	40.19	N
ATOM	13178	CA	GLY	D	420	20.438	70.660	25.396	1.00	40.14	C
ATOM	13179	C	GLY	D	420	19.254	71.229	26.157	1.00	40.31	C
ATOM	13180	O	GLY	D	420	18.106	71.051	25.750	1.00	39.95	O
ATOM	13181	N	SER	D	421	19.530	71.915	27.264	1.00	39.74	N
ATOM	13182	CA	SER	D	421	18.474	72.503	28.080	1.00	40.04	C
ATOM	13183	C	SER	D	421	17.991	73.817	27.471	1.00	40.19	C
ATOM	13184	O	SER	D	421	18.732	74.476	26.744	1.00	39.33	O
ATOM	13185	CB	SER	D	421	18.985	72.755	29.500	1.00	39.74	C
ATOM	13186	OG	SER	D	421	19.946	73.796	29.514	1.00	39.72	O
ATOM	13187	N	THR	D	422	16.750	74.196	27.769	1.00	40.19	N
ATOM	13188	CA	THR	D	422	16.198	75.440	27.244	1.00	40.64	C
ATOM	13189	C	THR	D	422	16.863	76.636	27.922	1.00	41.65	C
ATOM	13190	O	THR	D	422	16.892	77.735	27.366	1.00	42.06	O
ATOM	13191	CB	THR	D	422	14.661	75.537	27.457	1.00	40.09	C
ATOM	13192	OG1	THR	D	422	14.362	75.543	28.860	1.00	38.18	O
ATOM	13193	CG2	THR	D	422	13.949	74.367	26.778	1.00	39.06	C
ATOM	13194	N	GLU	D	423	17.390	76.425	29.127	1.00	41.75	N
ATOM	13195	CA	GLU	D	423	18.059	77.503	29.850	1.00	40.99	C
ATOM	13196	C	GLU	D	423	19.301	77.899	29.057	1.00	42.51	C
ATOM	13197	O	GLU	D	423	19.608	79.086	28.889	1.00	41.77	O
ATOM	13198	CB	GLU	D	423	18.454	77.044	31.262	1.00	38.47	C
ATOM	13199	CG	GLU	D	423	19.319	78.050	32.023	1.00	35.65	C
ATOM	13200	CD	GLU	D	423	19.363	77.791	33.520	1.00	33.20	C
ATOM	13201	OE1	GLU	D	423	18.324	77.981	34.189	1.00	33.06	O
ATOM	13202	OE2	GLU	D	423	20.432	77.400	34.028	1.00	30.25	O
ATOM	13203	N	GLU	D	424	19.997	76.883	28.561	1.00	43.46	N
ATOM	13204	CA	GLU	D	424	21.207	77.067	27.778	1.00	45.76	C
ATOM	13205	C	GLU	D	424	20.929	77.778	26.450	1.00	46.90	C
ATOM	13206	O	GLU	D	424	21.735	78.598	25.999	1.00	47.39	O
ATOM	13207	CB	GLU	D	424	21.857	75.699	27.531	1.00	45.90	C
ATOM	13208	CG	GLU	D	424	22.949	75.679	26.478	1.00	48.16	C
ATOM	13209	CD	GLU	D	424	23.582	74.303	26.329	1.00	50.47	C
ATOM	13210	OE1	GLU	D	424	24.369	73.911	27.220	1.00	51.87	O
ATOM	13211	OE2	GLU	D	424	23.285	73.612	25.329	1.00	49.86	O
ATOM	13212	N	GLY	D	425	19.783	77.483	25.838	1.00	46.93	N
ATOM	13213	CA	GLY	D	425	19.457	78.096	24.559	1.00	47.24	C
ATOM	13214	C	GLY	D	425	18.438	79.224	24.551	1.00	47.38	C
ATOM	13215	O	GLY	D	425	18.041	79.686	23.479	1.00	48.18	O
ATOM	13216	N	GLN	D	426	18.013	79.678	25.726	1.00	45.76	N
ATOM	13217	CA	GLN	D	426	17.034	80.757	25.800	1.00	45.00	C
ATOM	13218	C	GLN	D	426	17.411	81.832	26.809	1.00	45.43	C
ATOM	13219	O	GLN	D	426	16.748	82.865	26.904	1.00	45.27	O
ATOM	13220	CB	GLN	D	426	15.654	80.197	26.152	1.00	43.91	C
ATOM	13221	CG	GLN	D	426	14.984	79.437	25.020	1.00	44.58	C
ATOM	13222	CD	GLN	D	426	13.566	79.018	25.360	1.00	44.42	C
ATOM	13223	OE1	GLN	D	426	12.776	79.813	25.876	1.00	42.33	O
ATOM	13224	NE2	GLN	D	426	13.231	77.767	25.060	1.00	44.54	N
ATOM	13225	N	PHE	D	427	18.474	81.587	27.565	1.00	46.15	N
ATOM	13226	CA	PHE	D	427	18.920	82.541	28.572	1.00	46.23	C
ATOM	13227	C	PHE	D	427	20.373	82.935	28.341	1.00	47.48	C
ATOM	13228	O	PHE	D	427	20.669	84.146	28.422	1.00	49.58	O
ATOM	13229	CB	PHE	D	427	18.734	81.948	29.977	1.00	44.51	C
ATOM	13230	CG	PHE	D	427	17.289	81.764	30.374	1.00	42.65	C
ATOM	13231	CD1	PHE	D	427	16.448	80.933	29.638	1.00	41.55	C
ATOM	13232	CD2	PHE	D	427	16.765	82.434	31.475	1.00	41.39	C
ATOM	13233	CE1	PHE	D	427	15.106	80.775	29.993	1.00	42.22	C
ATOM	13234	CE2	PHE	D	427	15.424	82.282	31.840	1.00	41.06	C
ATOM	13235	CZ	PHE	D	427	14.593	81.452	31.098	1.00	40.81	C
TER	13236		PHE	D	427						
HETATM	13237	MG	MG	A	451	19.931	44.798	51.727	1.00	24.82	MG
HETATM	13238	MG	MG	B	452	5.589	58.039	80.187	1.00	25.07	MG
HETATM	13239	MG	MG	C	453	8.468	67.722	37.665	1.00	24.33	MG



HETATM13240	MG	MG	D	454	10.785	83.994	68.434	1.00	25.63	MG
HETATM13241	C1	GLV		461	21.399	42.936	53.245	1.00	36.28	C
HETATM13242	O1	GLV		461	21.483	43.243	52.058	1.00	39.11	O
HETATM13243	C2	GLV		461	20.228	43.396	54.090	1.00	36.19	C
HETATM13244	O2	GLV		461	19.361	44.135	53.570	1.00	38.10	O
HETATM13245	O3	GLV		461	20.171	43.013	55.275	1.00	32.58	O
HETATM13246	C1	GLV		462	4.422	55.437	80.999	1.00	35.39	C
HETATM13247	O1	GLV		462	4.092	56.569	81.351	1.00	37.16	O
HETATM13248	C2	GLV		462	5.557	55.215	80.012	1.00	34.70	C
HETATM13249	O2	GLV		462	6.226	56.200	79.627	1.00	33.08	O
HETATM13250	O3	GLV		462	5.777	54.049	79.625	1.00	29.25	O
HETATM13251	C1	GLV		463	6.877	69.968	36.687	1.00	37.08	C
HETATM13252	O1	GLV		463	7.182	68.867	36.226	1.00	39.05	O
HETATM13253	C2	GLV		463	7.672	70.587	37.823	1.00	37.44	C
HETATM13254	O2	GLV		463	8.644	69.953	38.288	1.00	37.94	O
HETATM13255	O3	GLV		463	7.323	71.711	38.247	1.00	34.93	O
HETATM13256	C1	GLV		464	11.817	86.236	67.201	1.00	38.96	C
HETATM13257	O1	GLV		464	11.696	85.873	68.374	1.00	40.99	O
HETATM13258	C2	GLV		464	11.042	85.554	66.084	1.00	38.44	C
HETATM13259	O2	GLV		464	10.326	84.570	66.368	1.00	38.98	O
HETATM13260	O3	GLV		464	11.146	86.008	64.925	1.00	35.52	O
HETATM13261	C1	SIN		471	19.834	40.392	51.278	1.00	38.11	C
HETATM13262	O1	SIN		471	20.903	39.817	51.575	1.00	42.00	O
HETATM13263	O2	SIN		471	19.681	40.969	50.186	1.00	38.89	O
HETATM13264	C2	SIN		471	18.665	40.410	52.272	1.00	37.06	C
HETATM13265	C3	SIN		471	18.992	39.825	53.669	1.00	31.93	C
HETATM13266	C4	SIN		471	19.145	38.310	53.665	1.00	31.04	C
HETATM13267	O3	SIN		471	18.318	37.616	53.038	1.00	30.87	O
HETATM13268	O4	SIN		471	20.104	37.817	54.286	1.00	29.67	O
HETATM13269	C1	SIN		472	6.301	55.746	83.967	1.00	40.38	C
HETATM13270	O1	SIN		472	5.516	55.012	84.603	1.00	44.38	O
HETATM13271	O2	SIN		472	6.095	56.968	83.837	1.00	42.14	O
HETATM13272	C2	SIN		472	7.558	55.154	83.315	1.00	40.46	C
HETATM13273	C3	SIN		472	7.485	53.638	83.018	1.00	34.48	C
HETATM13274	C4	SIN		472	7.562	52.780	84.269	1.00	32.01	C
HETATM13275	O3	SIN		472	8.496	52.959	85.077	1.00	31.60	O
HETATM13276	O4	SIN		472	6.672	51.931	84.446	1.00	27.60	O
HETATM13277	C1	SIN		473	9.292	70.290	34.188	1.00	39.64	C
HETATM13278	O1	SIN		473	8.207	70.705	33.720	1.00	42.50	O
HETATM13279	O2	SIN		473	9.643	69.097	34.081	1.00	40.56	O
HETATM13280	C2	SIN		473	10.239	71.248	34.930	1.00	39.26	C
HETATM13281	C3	SIN		473	9.621	72.605	35.325	1.00	32.15	C
HETATM13282	C4	SIN		473	9.585	73.588	34.176	1.00	30.98	C
HETATM13283	O3	SIN		473	10.661	73.965	33.666	1.00	29.61	O
HETATM13284	O4	SIN		473	8.471	73.975	33.776	1.00	27.95	O
HETATM13285	C1	SIN		474	9.082	88.302	68.562	1.00	42.92	C
HETATM13286	O1	SIN		474	9.617	89.433	68.545	1.00	45.59	O
HETATM13287	O2	SIN		474	9.161	87.541	69.550	1.00	43.20	O
HETATM13288	C2	SIN		474	8.297	87.818	67.340	1.00	41.08	C
HETATM13289	C3	SIN		474	8.749	88.446	65.997	1.00	36.66	C
HETATM13290	C4	SIN		474	8.254	89.869	65.806	1.00	35.13	C
HETATM13291	O3	SIN		474	7.042	90.122	65.978	1.00	33.82	O
HETATM13292	O4	SIN		474	9.089	90.736	65.492	1.00	33.29	O
HETATM13293	O	HOH	1001		20.832	45.634	50.012	1.00	16.59	O
HETATM13294	O	HOH	1002		18.938	43.481	50.312	1.00	22.70	O
HETATM13295	O	HOH	1003		18.149	46.001	51.382	1.00	18.51	O
HETATM13296	O	HOH	1004		4.093	59.562	80.831	1.00	15.02	O
HETATM13297	O	HOH	1005		6.343	58.598	81.912	1.00	31.39	O
HETATM13298	O	HOH	1006		6.888	59.226	79.046	1.00	19.64	O
HETATM13299	O	HOH	1007		8.082	65.773	73.042	1.00	16.64	O
HETATM13300	O	HOH	1008		10.154	67.748	36.217	1.00	22.48	O
HETATM13301	O	HOH	1009		10.064	67.444	38.996	1.00	22.87	O
HETATM13302	O	HOH	1010		11.457	83.608	70.318	1.00	21.64	O
HETATM13303	O	HOH	1011		9.211	84.976	69.393	1.00	26.53	MG
HETATM13304	O	HOH	1012		9.460	82.467	68.257	1.00	17.98	O
HETATM13305	O	HOH	1013		-2.768	71.993	63.973	1.00	11.69	O
HETATM13306	O	HOH	1014		21.520	64.213	72.851	1.00	12.08	O
HETATM13307	O	HOH	1015		23.691	67.255	48.733	1.00	16.46	O
HETATM13308	O	HOH	1016		2.308	51.175	52.314	1.00	12.08	O
HETATM13309	O	HOH	1017		18.219	53.128	18.751	1.00	21.15	O
HETATM13310	O	HOH	1018		6.672	52.604	73.236	1.00	15.33	O
HETATM13311	O	HOH	1019		14.369	49.867	73.070	1.00	13.93	O
HETATM13312	O	HOH	1020		13.360	56.920	79.034	1.00	9.97	O
HETATM13313	O	HOH	1021		11.480	41.483	52.391	1.00	14.85	O
HETATM13314	O	HOH	1022		15.054	57.174	44.060	1.00	12.34	O
HETATM13315	O	HOH	1023		24.147	46.736	48.292	1.00	16.14	O
HETATM13316	O	HOH	1024		-3.659	52.479	48.035	1.00	9.56	O
HETATM13317	O	HOH	1025		30.345	63.912	49.247	1.00	16.18	O
HETATM13318	O	HOH	1026		7.896	62.860	46.293	1.00	9.43	C
HETATM13319	O	HOH	1027		25.827	66.031	75.870	1.00	15.79	O



HETATM13320	O	HOH	1028	14.354	83.611	72.504	1.00	18.55	O
HETATM13321	O	HOH	1029	30.488	61.634	79.664	1.00	17.47	O
HETATM13322	O	HOH	1030	20.672	50.054	75.827	1.00	6.68	O
HETATM13323	O	HOH	1031	-7.549	56.714	59.970	1.00	12.08	O
HETATM13324	O	HOH	1032	4.792	35.964	64.165	1.00	13.51	O
HETATM13325	O	HOH	1033	6.630	79.663	68.547	1.00	17.28	O
HETATM13326	O	HOH	1034	-8.276	63.548	54.816	1.00	11.61	O
HETATM13327	O	HOH	1035	7.616	66.039	25.593	1.00	16.06	O
HETATM13328	O	HOH	1036	8.794	50.611	63.607	1.00	13.18	O
HETATM13329	O	HOH	1037	31.655	65.683	62.723	1.00	11.85	O
HETATM13330	O	HOH	1038	18.125	65.777	66.878	1.00	14.69	O
HETATM13331	O	HOH	1039	11.420	61.111	21.843	1.00	15.80	O
HETATM13332	O	HOH	1040	16.309	53.539	67.571	1.00	12.75	O
HETATM13333	O	HOH	1041	8.209	54.659	50.768	1.00	12.16	O
HETATM13334	O	HOH	1042	14.560	47.683	50.453	1.00	10.33	O
HETATM13335	O	HOH	1043	2.660	54.984	50.763	1.00	12.06	O
HETATM13336	O	HOH	1044	10.079	54.721	46.810	1.00	16.83	O
HETATM13337	O	HOH	1045	21.728	59.982	72.343	1.00	16.55	O
HETATM13338	O	HOH	1046	4.472	57.716	54.156	1.00	14.85	O
HETATM13339	O	HOH	1047	26.316	66.992	46.947	1.00	18.95	O
HETATM13340	O	HOH	1048	12.026	44.256	63.186	1.00	8.79	O
HETATM13341	O	HOH	1049	23.391	63.659	50.608	1.00	11.55	O
HETATM13342	O	HOH	1050	-14.600	63.092	71.752	1.00	15.25	O
HETATM13343	O	HOH	1051	-8.077	67.893	60.589	1.00	18.55	O
HETATM13344	O	HOH	1052	22.747	57.274	83.058	1.00	17.17	O
HETATM13345	O	HOH	1053	13.016	74.428	67.438	1.00	8.99	O
HETATM13346	O	HOH	1054	-5.393	73.020	65.464	1.00	17.33	O
HETATM13347	O	HOH	1055	-2.402	74.348	93.882	1.00	21.33	O
HETATM13348	O	HOH	1056	12.164	43.747	54.196	1.00	13.13	O
HETATM13349	O	HOH	1057	13.424	65.908	41.015	1.00	16.04	O
HETATM13350	O	HOH	1058	4.980	62.810	71.589	1.00	18.04	O
HETATM13351	O	HOH	1059	19.985	59.115	50.069	1.00	8.61	O
HETATM13352	O	HOH	1060	-1.653	68.561	65.703	1.00	16.41	O
HETATM13353	O	HOH	1061	19.736	87.893	56.420	1.00	17.21	O
HETATM13354	O	HOH	1062	11.466	45.064	43.342	1.00	19.17	O
HETATM13355	O	HOH	1063	9.510	67.744	51.435	1.00	18.40	O
HETATM13356	O	HOH	1064	29.821	29.626	63.039	1.00	24.07	O
HETATM13357	O	HOH	1065	28.192	77.740	67.085	1.00	19.87	O
HETATM13358	O	HOH	1066	18.343	54.549	52.554	1.00	13.30	O
HETATM13359	O	HOH	1067	31.171	68.996	61.006	1.00	19.59	O
HETATM13360	O	HOH	1068	14.865	66.182	71.578	1.00	18.23	O
HETATM13361	O	HOH	1069	20.135	67.635	70.862	1.00	7.85	O
HETATM13362	O	HOH	1070	2.617	49.366	56.444	1.00	15.04	O
HETATM13363	O	HOH	1071	13.477	55.033	44.744	1.00	18.88	O
HETATM13364	O	HOH	1072	19.087	37.108	26.723	1.00	19.54	O
HETATM13365	O	HOH	1073	3.131	56.656	57.731	1.00	16.13	O
HETATM13366	O	HOH	1074	12.652	69.199	73.888	1.00	15.96	O
HETATM13367	O	HOH	1075	44.050	55.699	44.359	1.00	28.16	O
HETATM13368	O	HOH	1076	25.663	63.990	61.631	1.00	19.89	O
HETATM13369	O	HOH	1077	12.455	60.918	54.033	1.00	21.88	O
HETATM13370	O	HOH	1078	21.622	54.614	73.701	1.00	14.61	O
HETATM13371	O	HOH	1079	6.104	59.883	54.816	1.00	21.57	O
HETATM13372	O	HOH	1080	29.471	71.300	60.428	1.00	16.43	O
HETATM13373	O	HOH	1081	-9.628	58.122	68.965	1.00	16.15	O
HETATM13374	O	HOH	1082	7.695	56.148	46.136	1.00	7.73	O
HETATM13375	O	HOH	1083	32.680	56.347	64.747	1.00	11.13	O
HETATM13376	O	HOH	1084	4.669	77.947	67.742	1.00	12.43	O
HETATM13377	O	HOH	1085	2.198	64.652	95.923	1.00	20.58	O
HETATM13378	O	HOH	1086	28.792	64.902	60.095	1.00	24.17	O
HETATM13379	O	HOH	1087	-0.587	38.513	86.798	1.00	21.60	O
HETATM13380	O	HOH	1088	10.930	59.602	39.687	1.00	20.70	O
HETATM13381	O	HOH	1089	15.622	66.107	42.768	1.00	13.83	O
HETATM13382	O	HOH	1090	8.898	70.436	75.179	1.00	15.25	O
HETATM13383	O	HOH	1091	-3.068	56.147	55.707	1.00	18.93	O
HETATM13384	O	HOH	1092	24.961	74.772	39.145	1.00	24.26	O
HETATM13385	O	HOH	1093	-0.311	62.720	63.435	1.00	16.96	O
HETATM13386	O	HOH	1094	12.021	48.483	50.763	1.00	17.26	O
HETATM13387	O	HOH	1095	10.213	50.188	23.642	1.00	16.09	O
HETATM13388	O	HOH	1096	12.568	55.424	47.308	1.00	6.77	O
HETATM13389	O	HOH	1097	-10.177	61.002	29.650	1.00	18.59	O
HETATM13390	O	HOH	1098	30.782	63.226	63.040	1.00	16.81	O
HETATM13391	O	HOH	1099	25.937	33.937	51.914	1.00	12.37	O
HETATM13392	O	HOH	1100	30.507	54.427	64.684	1.00	20.61	O
HETATM13393	O	HOH	1101	5.423	75.405	54.412	1.00	14.21	O
HETATM13394	O	HOH	1102	8.762	69.613	71.145	1.00	18.11	O
HETATM13395	O	HOH	1103	12.789	88.835	27.467	1.00	31.66	O
HETATM13396	O	HOH	1104	3.886	58.756	92.225	1.00	18.58	O
HETATM13397	O	HOH	1105	11.036	93.146	76.616	1.00	21.20	O
HETATM13398	O	HOH	1106	23.156	45.602	78.765	1.00	17.55	O
HETATM13399	O	HOH	1107	10.052	68.761	73.157	1.00	7.83	O



HETATM13400	O	HOH	1108	-13.051	77.116	62.760	1.00	22.34	O
HETATM13401	O	HOH	1109	14.022	75.252	52.313	1.00	19.97	O
HETATM13402	O	HOH	1110	-7.075	62.672	52.243	1.00	18.45	O
HETATM13403	O	HOH	1111	-5.260	42.191	75.514	1.00	23.56	O
HETATM13404	O	HOH	1112	12.730	44.097	83.400	1.00	19.45	O
HETATM13405	O	HOH	1113	-10.189	63.802	29.942	1.00	24.20	O
HETATM13406	O	HOH	1114	12.645	81.461	60.029	1.00	34.01	O
HETATM13407	O	HOH	1115	11.775	76.169	44.702	1.00	19.97	O
HETATM13408	O	HOH	1116	6.045	41.409	62.105	1.00	17.38	O
HETATM13409	O	HOH	1117	15.750	33.071	61.786	1.00	15.72	O
HETATM13410	O	HOH	1118	-7.953	51.434	64.711	1.00	15.98	O
HETATM13411	O	HOH	1119	-9.020	58.255	58.206	1.00	17.41	O
HETATM13412	O	HOH	1120	32.842	41.670	66.244	1.00	27.78	O
HETATM13413	O	HOH	1121	13.317	44.658	60.969	1.00	19.43	O
HETATM13414	O	HOH	1122	7.710	66.561	87.383	1.00	23.79	O
HETATM13415	O	HOH	1123	3.379	38.731	52.317	1.00	20.38	O
HETATM13416	O	HOH	1124	-2.182	74.080	60.236	1.00	19.33	O
HETATM13417	O	HOH	1125	-9.700	55.799	41.685	1.00	18.79	O
HETATM13418	O	HOH	1126	19.021	47.585	60.121	1.00	17.72	O
HETATM13419	O	HOH	1127	26.870	17.734	64.177	1.00	23.79	O
HETATM13420	O	HOH	1128	-16.246	59.845	46.110	1.00	21.86	O
HETATM13421	O	HOH	1129	-3.477	75.170	81.245	1.00	29.58	O
HETATM13422	O	HOH	1130	30.864	80.295	58.405	1.00	20.24	O
HETATM13423	O	HOH	1131	4.167	62.125	73.968	1.00	14.34	O
HETATM13424	O	HOH	1132	5.109	56.378	92.687	1.00	23.17	O
HETATM13425	O	HOH	1133	-5.460	42.700	51.482	1.00	19.63	O
HETATM13426	O	HOH	1134	-14.475	51.415	50.763	1.00	29.68	O
HETATM13427	O	HOH	1135	20.025	58.648	47.383	1.00	20.82	O
HETATM13428	O	HOH	1136	7.105	48.626	35.485	1.00	28.15	O
HETATM13429	O	HOH	1137	30.793	53.912	61.992	1.00	19.06	O
HETATM13430	O	HOH	1138	1.305	54.403	20.427	1.00	22.50	O
HETATM13431	O	HOH	1139	-5.642	50.650	65.937	1.00	18.38	O
HETATM13432	O	HOH	1140	10.005	66.258	65.054	1.00	20.70	O
HETATM13433	O	HOH	1141	18.340	51.156	45.896	1.00	17.89	O
HETATM13434	O	HOH	1142	29.744	67.674	84.744	1.00	24.88	O
HETATM13435	O	HOH	1143	-11.000	59.965	32.204	1.00	16.47	O
HETATM13436	O	HOH	1144	28.295	29.866	50.108	1.00	28.29	O
HETATM13437	O	HOH	1145	-2.237	77.882	42.111	1.00	27.33	O
HETATM13438	O	HOH	1146	4.008	45.178	59.843	1.00	19.68	O
HETATM13439	O	HOH	1147	2.533	67.160	69.488	1.00	16.46	O
HETATM13440	O	HOH	1148	20.610	69.010	64.702	1.00	12.41	O
HETATM13441	O	HOH	1149	6.767	57.873	47.951	1.00	16.20	O
HETATM13442	O	HOH	1150	28.532	72.115	62.696	1.00	24.48	O
HETATM13443	O	HOH	1151	16.449	42.544	70.002	1.00	19.74	O
HETATM13444	O	HOH	1152	-12.237	46.111	34.791	1.00	27.09	O
HETATM13445	O	HOH	1153	29.916	67.595	49.665	1.00	26.32	O
HETATM13446	O	HOH	1154	9.926	61.406	78.154	1.00	15.52	O
HETATM13447	O	HOH	1155	18.084	63.031	48.824	1.00	16.45	O
HETATM13448	O	HOH	1156	14.830	55.273	58.579	1.00	12.41	O
HETATM13449	O	HOH	1157	14.751	70.973	73.208	1.00	12.43	O
HETATM13450	O	HOH	1158	2.317	69.173	71.436	1.00	18.96	O
HETATM13451	O	HOH	1159	13.896	34.414	51.074	1.00	19.69	O
HETATM13452	O	HOH	1160	11.130	85.498	49.606	1.00	17.94	O
HETATM13453	O	HOH	1161	7.575	63.426	43.712	1.00	13.68	O
HETATM13454	O	HOH	1162	-4.248	54.595	52.215	1.00	15.17	O
HETATM13455	O	HOH	1163	-14.098	55.837	58.473	1.00	19.13	O
HETATM13456	O	HOH	1164	0.974	67.193	59.239	1.00	19.21	O
HETATM13457	O	HOH	1165	12.982	53.560	88.526	1.00	12.21	O
HETATM13458	O	HOH	1166	6.027	82.352	55.385	1.00	15.98	O
HETATM13459	O	HOH	1167	-7.634	78.706	39.263	1.00	21.16	O
HETATM13460	O	HOH	1168	1.357	60.656	53.202	1.00	12.58	O
HETATM13461	O	HOH	1169	-7.370	53.680	52.389	1.00	18.12	O
HETATM13462	O	HOH	1170	-12.560	51.293	44.734	1.00	23.31	O
HETATM13463	O	HOH	1171	22.336	71.374	49.315	1.00	17.43	O
HETATM13464	O	HOH	1172	31.785	46.178	26.049	1.00	27.29	O
HETATM13465	O	HOH	1173	-7.451	61.960	45.399	1.00	16.15	O
HETATM13466	O	HOH	1174	13.059	23.762	66.168	1.00	26.57	O
HETATM13467	O	HOH	1175	-8.596	43.889	69.197	1.00	22.33	O
HETATM13468	O	HOH	1176	32.247	67.389	54.062	1.00	21.38	O
HETATM13469	O	HOH	1177	-6.163	52.744	67.829	1.00	15.22	O
HETATM13470	O	HOH	1178	3.872	71.238	71.298	1.00	14.61	O
HETATM13471	O	HOH	1179	12.628	33.305	55.360	1.00	18.83	O
HETATM13472	O	HOH	1180	6.933	42.150	44.859	1.00	24.17	O
HETATM13473	O	HOH	1181	-9.421	61.452	56.141	1.00	17.47	O
HETATM13474	O	HOH	1182	15.982	74.643	96.868	1.00	21.78	O
HETATM13475	O	HOH	1183	-3.396	50.198	51.494	1.00	18.71	O
HETATM13476	O	HOH	1184	11.250	39.773	89.500	1.00	21.73	O
HETATM13477	O	HOH	1185	27.577	80.234	83.890	1.00	26.72	O
HETATM13478	O	HOH	1186	-15.917	62.963	60.741	1.00	28.32	O
HETATM13479	O	HOH	1187	17.857	59.638	45.913	1.00	14.71	O



HETATM13480	O	HOH	1188	-2.812	59.372	59.403	1.00	20.71	O
HETATM13481	O	HOH	1189	-8.748	70.998	63.627	1.00	17.27	O
HETATM13482	O	HOH	1190	27.022	67.335	69.695	1.00	19.64	O
HETATM13483	O	HOH	1191	-2.352	76.904	79.031	1.00	31.79	O
HETATM13484	O	HOH	1192	19.443	62.516	36.264	1.00	30.53	O
HETATM13485	O	HOH	1193	22.147	50.057	40.664	1.00	24.17	O
HETATM13486	O	HOH	1194	6.703	55.340	33.871	1.00	29.67	O
HETATM13487	O	HOH	1195	-5.371	72.277	60.877	1.00	19.58	O
HETATM13488	O	HOH	1196	-3.320	87.384	52.287	1.00	26.29	O
HETATM13489	O	HOH	1197	30.425	61.668	60.717	1.00	25.91	O
HETATM13490	O	HOH	1198	20.258	67.618	55.650	1.00	14.99	O
HETATM13491	O	HOH	1199	13.542	46.083	84.888	1.00	19.13	O
HETATM13492	O	HOH	1200	33.267	70.175	67.808	1.00	27.98	O
HETATM13493	O	HOH	1201	24.909	36.025	34.617	1.00	31.58	O
HETATM13494	O	HOH	1202	15.340	57.634	69.713	1.00	20.11	O
HETATM13495	O	HOH	1203	-6.959	70.306	48.907	1.00	19.18	O
HETATM13496	O	HOH	1204	-16.183	58.090	81.108	1.00	28.90	O
HETATM13497	O	HOH	1205	-3.316	44.693	34.731	1.00	24.96	O
HETATM13498	O	HOH	1206	-6.487	68.274	47.347	1.00	21.01	O
HETATM13499	O	HOH	1207	15.278	71.526	40.816	1.00	22.26	O
HETATM13500	O	HOH	1208	37.078	77.534	67.982	1.00	24.29	O
HETATM13501	O	HOH	1209	-5.436	49.848	33.740	1.00	25.13	O
HETATM13502	O	HOH	1210	4.736	74.610	58.951	1.00	20.98	O
HETATM13503	O	HOH	1211	37.893	46.104	36.279	1.00	31.74	O
HETATM13504	O	HOH	1212	-3.354	52.091	24.721	1.00	20.26	O
HETATM13505	O	HOH	1213	3.440	38.024	97.814	1.00	33.32	O
HETATM13506	O	HOH	1214	-11.779	65.418	79.972	1.00	15.56	O
HETATM13507	O	HOH	1215	32.405	45.449	71.848	1.00	28.24	O
HETATM13508	O	HOH	1216	13.036	82.215	34.289	1.00	28.52	O
HETATM13509	O	HOH	1217	27.755	68.832	63.071	1.00	34.33	O
HETATM13510	O	HOH	1218	-16.448	41.742	47.307	1.00	28.31	O
HETATM13511	O	HOH	1219	9.400	47.936	29.562	1.00	35.05	O
HETATM13512	O	HOH	1220	14.221	57.229	81.981	1.00	23.31	O
HETATM13513	O	HOH	1221	10.150	67.011	25.814	1.00	23.86	O
HETATM13514	O	HOH	1222	22.629	62.066	57.102	1.00	21.97	O
HETATM13515	O	HOH	1223	12.815	66.845	83.665	1.00	25.16	O
HETATM13516	O	HOH	1224	39.536	53.507	56.220	1.00	28.20	O
HETATM13517	O	HOH	1225	31.277	70.286	53.424	1.00	27.20	O
HETATM13518	O	HOH	1226	40.541	44.209	50.323	1.00	37.00	O
HETATM13519	O	HOH	1227	11.221	42.481	71.213	1.00	11.57	O
HETATM13520	O	HOH	1228	17.749	36.527	70.870	1.00	26.71	O
HETATM13521	O	HOH	1229	-2.101	84.129	28.859	1.00	23.36	O
HETATM13522	O	HOH	1230	6.239	72.957	44.677	1.00	22.86	O
HETATM13523	O	HOH	1231	-5.275	42.124	43.598	1.00	22.12	O
HETATM13524	O	HOH	1232	-13.518	42.574	51.955	1.00	30.03	O
HETATM13525	O	HOH	1233	15.006	58.849	46.159	1.00	21.11	O
HETATM13526	O	HOH	1234	1.691	66.742	62.953	1.00	18.22	O
HETATM13527	O	HOH	1235	0.541	69.389	26.643	1.00	19.47	O
HETATM13528	O	HOH	1236	-1.551	48.474	26.255	1.00	31.16	O
HETATM13529	O	HOH	1237	10.925	37.837	75.746	1.00	18.35	O
HETATM13530	O	HOH	1238	-14.919	55.200	72.636	1.00	22.54	O
HETATM13531	O	HOH	1239	-9.424	58.294	30.883	1.00	20.67	O
HETATM13532	O	HOH	1240	8.999	79.453	87.217	1.00	25.89	O
HETATM13533	O	HOH	1241	-8.860	68.658	67.030	1.00	21.62	O
HETATM13534	O	HOH	1242	16.667	71.681	38.122	1.00	17.21	O
HETATM13535	O	HOH	1243	26.701	79.248	58.611	1.00	19.65	O
HETATM13536	O	HOH	1244	5.458	42.041	31.254	1.00	23.94	O
HETATM13537	O	HOH	1245	-13.882	44.013	36.979	1.00	28.55	O
HETATM13538	O	HOH	1246	-0.299	38.662	58.780	1.00	20.87	O
HETATM13539	O	HOH	1247	14.069	32.813	53.233	1.00	18.20	O
HETATM13540	O	HOH	1248	-2.673	67.002	59.625	1.00	17.63	O
HETATM13541	O	HOH	1249	19.987	64.414	54.199	1.00	25.04	O
HETATM13542	O	HOH	1250	14.395	32.679	59.345	1.00	21.58	O
HETATM13543	O	HOH	1251	4.290	31.279	95.654	1.00	24.46	O
HETATM13544	O	HOH	1252	23.549	63.611	66.579	1.00	29.76	O
HETATM13545	O	HOH	1253	2.353	60.040	15.804	1.00	28.17	O
HETATM13546	O	HOH	1254	9.095	51.091	58.941	1.00	18.61	O
HETATM13547	O	HOH	1255	23.618	35.215	50.742	1.00	29.47	O
HETATM13548	O	HOH	1256	2.768	37.948	62.631	1.00	21.64	O
HETATM13549	O	HOH	1257	23.072	25.771	67.549	1.00	26.80	O
HETATM13550	O	HOH	1258	24.679	49.719	41.103	1.00	36.11	O
HETATM13551	O	HOH	1259	26.963	65.396	73.640	1.00	21.53	O
HETATM13552	O	HOH	1260	24.469	56.442	85.017	1.00	24.49	O
HETATM13553	O	HOH	1261	31.037	87.841	76.069	1.00	19.79	O
HETATM13554	O	HOH	1262	34.531	40.470	33.891	1.00	36.72	O
HETATM13555	O	HOH	1263	-9.823	81.141	45.513	1.00	25.14	O
HETATM13556	O	HOH	1264	21.081	49.308	32.439	1.00	28.62	O
HETATM13557	O	HOH	1265	6.918	56.589	20.998	1.00	38.14	O
HETATM13558	O	HOH	1266	25.562	28.785	71.162	1.00	20.29	O
HETATM13559	O	HOH	1267	27.659	64.792	69.718	1.00	31.38	O



HETATM13560	O	HOH	1268	3.439	70.902	67.014	1.00	19.75	O
HETATM13561	O	HOH	1269	25.379	62.861	69.924	1.00	21.92	O
HETATM13562	O	HOH	1270	15.770	74.729	31.327	1.00	33.72	O
HETATM13563	O	HOH	1271	-5.414	69.968	59.832	1.00	26.98	O
HETATM13564	O	HOH	1272	0.719	49.394	50.279	1.00	21.75	O
HETATM13565	O	HOH	1273	-7.240	83.270	35.520	1.00	40.80	O
HETATM13566	O	HOH	1274	-0.506	83.091	54.915	1.00	21.37	O
HETATM13567	O	HOH	1275	14.225	95.252	69.988	1.00	40.85	O
HETATM13568	O	HOH	1276	19.479	52.258	51.768	1.00	14.88	O
HETATM13569	O	HOH	1277	-4.728	54.818	34.721	1.00	21.74	O
HETATM13570	O	HOH	1278	15.902	23.428	60.730	1.00	25.13	O
HETATM13571	O	HOH	1279	12.475	51.745	74.537	1.00	20.09	O
HETATM13572	O	HOH	1280	-4.202	37.895	79.257	1.00	27.22	O
HETATM13573	O	HOH	1281	34.735	81.912	81.184	1.00	29.86	O
HETATM13574	O	HOH	1282	33.905	33.332	35.740	1.00	35.07	O
HETATM13575	O	HOH	1283	-0.078	49.096	94.024	1.00	23.77	O
HETATM13576	O	HOH	1284	26.027	65.221	66.355	1.00	23.15	O
HETATM13577	O	HOH	1285	-12.393	62.909	40.893	1.00	26.29	O
HETATM13578	O	HOH	1286	-10.492	77.891	45.720	1.00	22.68	O
HETATM13579	O	HOH	1287	23.864	24.364	65.372	1.00	26.27	O
HETATM13580	O	HOH	1288	8.227	67.837	16.096	1.00	28.04	O
HETATM13581	O	HOH	1289	14.447	71.039	52.992	1.00	26.87	O
HETATM13582	O	HOH	1290	33.226	51.021	78.842	1.00	27.33	O
HETATM13583	O	HOH	1291	40.617	61.192	49.417	1.00	21.78	O
HETATM13584	O	HOH	1292	35.450	65.108	56.588	1.00	21.23	O
HETATM13585	O	HOH	1293	19.219	34.080	71.939	1.00	29.63	O
HETATM13586	O	HOH	1294	31.901	40.846	34.621	1.00	20.86	O
HETATM13587	O	HOH	1295	16.106	66.488	64.549	1.00	24.06	O
HETATM13588	O	HOH	1296	-8.401	92.412	52.893	1.00	32.63	O
HETATM13589	O	HOH	1297	-6.513	51.622	54.684	1.00	26.51	O
HETATM13590	O	HOH	1298	12.526	79.361	88.992	1.00	23.12	O
HETATM13591	O	HOH	1299	16.638	43.424	40.959	1.00	24.62	O
HETATM13592	O	HOH	1300	30.409	67.150	69.545	1.00	28.61	O
HETATM13593	O	HOH	1301	-3.328	37.519	86.644	1.00	18.29	O
HETATM13594	O	HOH	1302	-9.421	68.626	49.662	1.00	24.43	O
HETATM13595	O	HOH	1303	1.051	90.354	27.755	1.00	33.01	O
HETATM13596	O	HOH	1304	-0.411	55.548	56.560	1.00	17.95	O
HETATM13597	O	HOH	1305	-15.786	60.459	82.733	1.00	30.09	O
HETATM13598	O	HOH	1306	5.983	44.541	35.169	1.00	29.00	O
HETATM13599	O	HOH	1307	4.411	104.223	51.419	1.00	33.21	O
HETATM13600	O	HOH	1308	18.340	28.525	46.941	1.00	34.63	O
HETATM13601	O	HOH	1309	26.701	69.535	73.891	1.00	18.95	O
HETATM13602	O	HOH	1310	21.875	33.850	45.675	1.00	22.78	O
HETATM13603	O	HOH	1311	-7.140	51.378	51.430	1.00	21.67	O
HETATM13604	O	HOH	1312	5.317	66.437	78.503	1.00	22.11	O
HETATM13605	O	HOH	1313	-1.148	36.134	58.130	1.00	16.81	O
HETATM13606	O	HOH	1314	-0.477	49.918	54.921	1.00	26.01	O
HETATM13607	O	HOH	1315	29.256	91.819	74.746	1.00	30.87	O
HETATM13608	O	HOH	1316	0.630	37.412	43.135	1.00	30.12	O
HETATM13609	O	HOH	1317	4.366	65.263	62.885	1.00	18.81	O
HETATM13610	O	HOH	1318	44.571	47.173	50.543	1.00	36.50	O
HETATM13611	O	HOH	1319	-12.126	70.469	61.331	1.00	27.26	O
HETATM13612	O	HOH	1320	10.115	68.997	79.198	1.00	29.58	O
HETATM13613	O	HOH	1321	12.998	77.114	68.395	1.00	23.74	O
HETATM13614	O	HOH	1322	12.957	50.154	30.873	1.00	21.85	O
HETATM13615	O	HOH	1323	23.450	80.891	43.208	1.00	37.16	O
HETATM13616	O	HOH	1324	51.401	65.506	45.836	1.00	31.35	O
HETATM13617	O	HOH	1325	22.478	35.631	44.007	1.00	22.64	O
HETATM13618	O	HOH	1326	-1.812	51.510	22.168	1.00	26.48	O
HETATM13619	O	HOH	1327	20.535	85.336	42.874	1.00	25.61	O
HETATM13620	O	HOH	1328	3.766	68.018	56.354	1.00	30.88	O
HETATM13621	O	HOH	1329	-5.887	60.795	55.028	1.00	29.32	O
HETATM13622	O	HOH	1330	2.056	45.664	31.455	1.00	26.14	O
HETATM13623	O	HOH	1331	-3.196	62.853	56.261	1.00	18.54	O
HETATM13624	O	HOH	1332	19.570	60.758	38.222	1.00	40.33	O
HETATM13625	O	HOH	1333	25.182	55.210	35.883	1.00	37.83	O
HETATM13626	O	HOH	1334	0.892	36.881	46.297	1.00	28.95	O
HETATM13627	O	HOH	1335	-12.960	52.633	42.582	1.00	22.19	O
HETATM13628	O	HOH	1336	-12.258	60.518	24.073	1.00	25.80	O
HETATM13629	O	HOH	1337	40.122	46.103	45.857	1.00	19.28	O
HETATM13630	O	HOH	1338	-10.825	56.408	51.233	1.00	16.08	O
HETATM13631	O	HOH	1339	8.726	78.602	89.862	1.00	36.02	O
HETATM13632	O	HOH	1340	43.879	49.432	49.273	1.00	26.33	O
HETATM13633	O	HOH	1341	-11.315	70.097	48.618	1.00	23.64	O
HETATM13634	O	HOH	1342	-1.407	81.587	57.063	1.00	25.29	O
HETATM13635	O	HOH	1343	26.770	75.879	87.845	1.00	32.95	O
HETATM13636	O	HOH	1344	0.289	42.523	96.406	1.00	26.34	O
HETATM13637	O	HOH	1345	41.183	45.753	48.068	1.00	17.67	O
HETATM13638	O	HOH	1346	7.471	32.555	95.185	1.00	29.23	O
HETATM13639	O	HOH	1347	12.451	78.391	46.267	1.00	19.52	O



HETATM13640	O	HOH	1348	-13.139	82.910	53.127	1.00	25.90
HETATM13641	O	HOH	1349	34.751	54.936	65.581	1.00	23.94
HETATM13642	O	HOH	1350	22.068	82.992	44.247	1.00	25.44
HETATM13643	O	HOH	1351	-14.436	69.661	80.273	1.00	25.75
HETATM13644	O	HOH	1352	28.500	39.078	33.978	1.00	28.42
HETATM13645	O	HOH	1353	6.702	82.423	57.927	1.00	22.89
HETATM13646	O	HOH	1354	19.859	62.628	65.127	1.00	26.06
HETATM13647	O	HOH	1355	41.322	59.804	57.704	1.00	33.85
HETATM13648	O	HOH	1356	30.707	36.195	49.566	1.00	21.54
HETATM13649	O	HOH	1357	-4.715	52.376	50.598	1.00	16.77
HETATM13650	O	HOH	1358	24.738	66.575	68.357	1.00	14.00
HETATM13651	O	HOH	1359	13.417	57.780	47.886	1.00	17.71
HETATM13652	O	HOH	1360	22.393	64.102	55.225	1.00	13.74
HETATM13653	O	HOH	1361	6.983	57.250	50.570	1.00	16.41
HETATM13654	O	HOH	1362	1.010	56.123	52.721	1.00	12.74
HETATM13655	O	HOH	1363	-1.909	48.888	49.526	1.00	19.18
HETATM13656	O	HOH	1364	-2.133	66.978	63.533	1.00	12.74
HETATM13657	O	HOH	1365	5.010	56.242	51.987	1.00	9.66
HETATM13658	O	HOH	1366	1.298	68.094	65.213	1.00	15.01
HETATM13659	O	HOH	1367	20.614	66.953	66.262	1.00	11.19
HETATM13660	O	HOH	1368	1.882	58.232	53.962	1.00	12.32
HETATM13661	O	HOH	1369	-5.119	39.432	69.029	1.00	23.40
HETATM13662	O	HOH	1370	22.916	65.290	75.254	1.00	22.63
HETATM13663	O	HOH	1371	-0.623	65.243	62.552	1.00	13.01
HETATM13664	O	HOH	1372	-9.623	49.398	65.548	1.00	24.71
HETATM13665	O	HOH	1373	-8.884	68.508	64.282	1.00	21.52
HETATM13666	O	HOH	1374	1.176	58.545	91.894	1.00	17.70
HETATM13667	O	HOH	1375	37.385	64.918	63.728	1.00	19.42
HETATM13668	O	HOH	1376	8.188	93.250	76.038	1.00	27.99
HETATM13669	O	HOH	1377	27.165	52.670	79.132	1.00	21.61
HETATM13670	O	HOH	1378	26.294	79.358	61.160	1.00	24.20
HETATM13671	O	HOH	1379	-7.272	58.101	62.261	1.00	19.52
HETATM13672	O	HOH	1380	-1.820	55.572	53.281	1.00	21.11
HETATM13673	O	HOH	1381	33.464	56.761	56.643	1.00	16.89
HETATM13674	O	HOH	1382	-4.730	63.008	58.893	1.00	21.81
HETATM13675	O	HOH	1383	33.633	87.835	76.180	1.00	39.00
HETATM13676	O	HOH	1384	15.302	68.150	69.604	1.00	17.87
HETATM13677	O	HOH	1385	22.991	62.951	59.753	1.00	24.06
HETATM13678	O	HOH	1386	21.785	59.421	38.919	1.00	30.29
HETATM13679	O	HOH	1387	-9.859	81.113	34.461	1.00	41.65
HETATM13680	O	HOH	1388	37.526	58.013	50.356	1.00	19.07
HETATM13681	O	HOH	1389	15.215	71.280	50.300	1.00	27.46
HETATM13682	O	HOH	1390	3.148	68.165	66.972	1.00	17.41
HETATM13683	O	HOH	1391	32.516	29.727	63.600	1.00	27.68
HETATM13684	O	HOH	1392	26.692	43.770	65.420	1.00	18.93
HETATM13685	O	HOH	1393	-18.401	65.113	70.10		



HETATM13720	O	HOH	1428	-12.848	72.416	82.348	1.00	25.80	
HETATM13721	O	HOH	1429	29.007	66.853	61.785	1.00	37.11	
HETATM13722	O	HOH	1430	-15.955	64.367	58.651	1.00	34.01	
HETATM13723	O	HOH	1431	-14.424	78.883	56.263	1.00	35.04	
HETATM13724	O	HOH	1432	0.567	62.407	55.141	1.00	28.39	
HETATM13725	O	HOH	1433	3.216	71.696	28.140	1.00	28.56	
HETATM13726	O	HOH	1434	-14.001	53.564	54.623	1.00	30.11	
HETATM13727	O	HOH	1435	-4.506	88.766	29.720	1.00	33.41	
HETATM13728	O	HOH	1436	-14.589	62.007	54.169	1.00	34.99	
HETATM13729	O	HOH	1437	35.238	72.771	75.620	1.00	30.57	
HETATM13730	O	HOH	1438	5.969	73.846	21.448	1.00	23.56	
HETATM13731	O	HOH	1439	-1.878	52.202	55.583	1.00	25.30	
HETATM13732	O	HOH	1440	-6.229	60.598	60.162	1.00	36.31	
HETATM13733	O	HOH	1441	-5.153	65.561	59.711	1.00	23.64	
HETATM13734	O	HOH	1442	-6.546	77.680	78.239	1.00	29.29	
HETATM13735	O	HOH	1443	20.674	76.527	47.621	1.00	29.06	
HETATM13736	O	HOH	1444	17.324	68.325	56.869	1.00	44.16	
HETATM13737	O	HOH	1445	30.740	61.225	71.305	1.00	35.90	
HETATM13738	O	HOH	1446	8.026	69.970	77.782	1.00	24.74	
HETATM13739	O	HOH	1447	26.431	43.604	84.577	1.00	32.15	
HETATM13740	O	HOH	1448	-11.464	75.610	44.741	1.00	28.63	
HETATM13741	O	HOH	1449	-10.821	66.246	61.972	1.00	31.85	
HETATM13742	O	HOH	1450	6.731	71.386	71.256	1.00	18.47	
HETATM13743	O	HOH	1451	37.205	54.974	39.939	1.00	45.53	
HETATM13744	O	HOH	1452	9.760	87.203	29.180	1.00	37.31	
HETATM13745	O	HOH	1453	3.985	82.454	64.445	1.00	20.61	
HETATM13746	O	HOH	1454	35.058	48.490	67.848	1.00	30.49	
HETATM13747	O	HOH	1455	27.297	50.333	22.602	1.00	42.71	
HETATM13748	O	HOH	1456	10.727	55.068	20.559	1.00	34.13	
HETATM13749	O	HOH	1457	5.162	32.289	58.273	1.00	29.09	
HETATM13750	O	HOH	1458	16.901	26.095	69.875	1.00	30.19	
HETATM13751	O	HOH	1459	10.291	35.528	40.647	1.00	28.51	
HETATM13752	O	HOH	1460	29.425	87.835	78.646	1.00	34.94	
HETATM13753	O	HOH	1461	1.714	50.245	95.809	1.00	27.96	
HETATM13754	O	HOH	1462	43.505	30.113	63.305	1.00	28.49	
HETATM13755	O	HOH	1463	10.106	77.718	74.075	1.00	35.58	
HETATM13756	O	HOH	1464	42.413	59.111	55.240	1.00	28.62	
HETATM13757	O	HOH	1465	11.931	52.279	95.934	1.00	37.29	
HETATM13758	O	HOH	1466	-0.818	69.917	97.042	1.00	35.02	
HETATM13759	O	HOH	1467	1.535	35.399	48.992	1.00	45.43	
HETATM13760	O	HOH	1468	6.313	83.778	47.383	1.00	27.56	
HETATM13761	O	HOH	1469	6.846	75.504	80.848	1.00	38.52	
HETATM13762	O	HOH	1470	-14.479	61.458	30.906	1.00	27.28	
HETATM13763	O	HOH	1471	14.490	67.296	96.953			



HETATM13800	O	HOH	1508	-1.316	59.936	101.876	1.00	35.39	O
HETATM13801	O	HOH	1509	29.500	63.519	28.836	1.00	27.89	O
HETATM13802	O	HOH	1510	14.839	70.416	82.219	1.00	28.14	O
HETATM13803	O	HOH	1511	-16.937	59.923	86.133	1.00	41.02	O
HETATM13804	O	HOH	1512	-2.735	72.511	80.917	1.00	29.24	O
HETATM13805	O	HOH	1513	-13.021	51.512	34.422	1.00	28.31	O
HETATM13806	O	HOH	1514	0.110	72.021	81.630	1.00	38.20	O
HETATM13807	O	HOH	1515	20.817	63.322	51.729	1.00	21.42	O
HETATM13808	O	HOH	1516	-19.156	56.074	69.934	1.00	32.96	O
HETATM13809	O	HOH	1517	-14.156	75.470	79.463	1.00	37.72	O
HETATM13810	O	HOH	1518	14.726	80.559	90.478	1.00	26.90	O
HETATM13811	O	HOH	1519	-21.725	60.316	70.010	1.00	36.11	O
HETATM13812	O	HOH	1520	22.736	33.011	72.593	1.00	35.61	O
HETATM13813	O	HOH	1521	23.203	66.597	36.229	1.00	38.32	O
HETATM13814	O	HOH	1522	15.625	72.728	84.795	1.00	33.54	O
HETATM13815	O	HOH	1523	-10.706	38.888	39.099	1.00	31.98	O
HETATM13816	O	HOH	1524	14.255	33.688	89.391	1.00	36.95	O
HETATM13817	O	HOH	1525	13.394	77.667	81.600	1.00	34.19	O
HETATM13818	O	HOH	1526	10.651	47.895	43.118	1.00	37.12	O
HETATM13819	O	HOH	1527	41.825	73.071	47.696	1.00	35.77	O
HETATM13820	O	HOH	1528	-1.226	68.712	82.773	1.00	34.45	O
HETATM13821	O	HOH	1529	28.225	81.735	80.173	1.00	30.64	O
HETATM13822	O	HOH	1530	-18.575	61.550	47.802	1.00	33.73	O
HETATM13823	O	HOH	1531	2.148	32.832	52.416	1.00	35.08	O
HETATM13824	O	HOH	1532	-19.192	55.756	81.749	1.00	28.08	O
HETATM13825	O	HOH	1533	23.799	57.800	36.509	1.00	40.51	O
HETATM13826	O	HOH	1534	37.253	78.713	70.637	1.00	35.31	O
HETATM13827	O	HOH	1535	5.347	93.956	57.409	1.00	35.82	O
HETATM13828	O	HOH	1536	16.074	76.002	24.009	1.00	28.03	O
HETATM13829	O	HOH	1537	-10.283	75.141	93.875	1.00	32.58	O
HETATM13830	O	HOH	1538	37.199	68.412	73.059	1.00	34.67	O
HETATM13831	O	HOH	1539	4.680	92.817	22.194	1.00	35.46	O
HETATM13832	O	HOH	1540	0.363	96.519	46.437	1.00	39.74	O
HETATM13833	O	HOH	1541	35.964	52.265	34.805	1.00	26.13	O
HETATM13834	O	HOH	1542	17.961	102.373	58.832	1.00	35.50	O
HETATM13835	O	HOH	1543	3.380	93.884	59.067	1.00	38.64	O
HETATM13836	O	HOH	1544	10.272	91.652	48.816	1.00	29.59	O
HETATM13837	O	HOH	1545	1.405	92.302	20.848	1.00	30.87	O
HETATM13838	O	HOH	1546	-0.999	32.799	63.842	1.00	37.45	O
HETATM13839	O	HOH	1547	29.143	78.233	59.171	1.00	31.70	O
HETATM13840	O	HOH	1548	39.923	85.042	58.054	1.00	43.74	O
HETATM13841	O	HOH	1549	-4.664	42.016	36.006	1.00	30.08	O
HETATM13842	O	HOH	1550	9.435	94.144	29.492	1.00	43.31	O
HETATM13843	O								



HETATM13880	O	HOH	1588	-0.107	51.743	88.490	1.00	29.71	O
HETATM13881	O	HOH	1589	32.983	82.920	68.645	1.00	41.34	O
HETATM13882	O	HOH	1590	17.755	47.727	26.804	1.00	25.29	O
HETATM13883	O	HOH	1591	28.210	29.409	36.875	1.00	40.83	O
HETATM13884	O	HOH	1592	-11.861	48.865	31.753	1.00	33.81	O
HETATM13885	O	HOH	1593	38.419	62.710	78.925	1.00	30.50	O
HETATM13886	O	HOH	1594	40.337	31.297	60.730	1.00	36.85	O
HETATM13887	O	HOH	1595	13.068	40.856	99.445	1.00	34.63	O
HETATM13888	O	HOH	1596	22.689	28.359	40.960	1.00	38.11	O
HETATM13889	O	HOH	1597	-5.163	46.860	56.277	1.00	45.44	O
HETATM13890	O	HOH	1598	-7.816	55.538	102.287	1.00	46.09	O
HETATM13891	O	HOH	1599	32.630	73.168	44.241	1.00	27.16	O
HETATM13892	O	HOH	1600	30.547	44.030	78.719	1.00	32.34	O
HETATM13893	O	HOH	1601	19.435	67.819	60.494	1.00	35.87	O
HETATM13894	O	HOH	1602	16.615	58.891	40.294	1.00	28.04	O
HETATM13895	O	HOH	1603	31.240	69.875	48.418	1.00	36.14	O
HETATM13896	O	HOH	1604	2.711	81.451	98.522	1.00	33.95	O
HETATM13897	O	HOH	1605	-23.029	44.210	46.806	1.00	31.46	O
HETATM13898	O	HOH	1606	10.830	65.207	62.739	1.00	36.64	O
HETATM13899	O	HOH	1607	13.759	65.598	61.396	1.00	49.81	O
HETATM13900	O	HOH	1608	39.872	74.867	46.902	1.00	35.41	O
HETATM13901	O	HOH	1609	3.175	58.172	14.165	1.00	37.81	O
HETATM13902	O	HOH	1610	-14.197	43.809	57.241	1.00	41.71	O
HETATM13903	O	HOH	1611	-23.167	64.021	78.624	1.00	32.43	O
HETATM13904	O	HOH	1612	-10.738	84.761	68.965	1.00	30.24	O
HETATM13905	O	HOH	1613	-17.528	48.978	66.629	1.00	41.53	O
HETATM13906	O	HOH	1614	-20.683	77.493	66.342	1.00	32.29	O
HETATM13907	O	HOH	1615	17.869	62.719	55.877	1.00	24.09	O
HETATM13908	O	HOH	1616	-13.507	68.819	92.515	1.00	28.05	O
HETATM13909	O	HOH	1617	5.332	56.769	61.058	1.00	28.76	O
HETATM13910	O	HOH	1618	37.160	53.981	75.932	1.00	57.41	O
HETATM13911	O	HOH	1619	33.633	47.868	70.159	1.00	37.32	O
HETATM13912	O	HOH	1620	6.558	72.295	28.506	1.00	35.97	O
HETATM13913	O	HOH	1621	-13.461	48.468	34.205	1.00	32.10	O
HETATM13914	O	HOH	1622	32.799	79.656	46.619	1.00	31.07	O
HETATM13915	O	HOH	1623	26.058	66.172	63.724	1.00	37.29	O
HETATM13916	O	HOH	1624	29.231	32.366	78.433	1.00	42.01	O
HETATM13917	O	HOH	1625	24.887	68.428	60.747	1.00	23.11	O
HETATM13918	O	HOH	1626	33.006	57.155	88.784	1.00	43.79	O
HETATM13919	O	HOH	1627	-7.898	62.007	100.122	1.00	26.84	O
HETATM13920	O	HOH	1628	50.036	57.718	55.064	1.00	42.90	O
HETATM13921	O	HOH	1629	-13.804	47.117	59.823	1.00	39.51	O
HETATM13922	O	HOH	1630	-20.508	74.690	60.753	1.00	34.10	O
HETATM13923	O	HOH	1631	-20.105	44.571	34.921	1.00	37.06	O
HETATM13924	O	HOH	1632	51.830	54.522	44.530	1.00	35.55	O
HETATM13925	O	HOH	1633	25.935	69.840	52.630	1.00	34.29	O
HETATM13926	O	HOH	1634	27.748	24.553	69.462	1.00	40.55	O
HETATM13927	O	HOH	1635	38.646	66.521	69.406	1.00	44.70	O
HETATM13928	O	HOH	1636	16.876	98.792	86.734	1.00	33.92	O
HETATM13929	O	HOH	1637	12.331	71.115	25.987	1.00	37.60	O
HETATM13930	O	HOH	1638	7.817	47.331	38.116	1.00	27.70	O
HETATM13931	O	HOH	1639	8.060	38.065	29.485	1.00	45.52	O
HETATM13932	O	HOH	1640	29.819	59.975	73.928	1.00	30.95	O
HETATM13933	O	HOH	1641	-16.007	57.413	55.571	1.00	33.15	O
HETATM13934	O	HOH	1642	9.543	46.041	35.065	1.00	29.18	O
HETATM13935	O	HOH	1643	13.426	31.461	82.301	1.00	34.86	O
HETATM13936	O	HOH	1644	22.175	29.614	75.234	1.00	35.56	O
HETATM13937	O	HOH	1645	-12.739	73.144	24.637	1.00	44.84	O
HETATM13938	O	HOH	1646	39.486	68.433	53.213	1.00	37.66	O
HETATM13939	O	HOH	1647	4.162	80.403	92.358	1.00	36.25	O
HETATM13940	O	HOH	1648	35.269	85.370	83.562	1.00	43.16	O
HETATM13941	O	HOH	1649	1.158	80.587	74.842	1.00	33.11	O
HETATM13942	O	HOH	1650	9.784	77.471	81.106	1.00	39.66	O
HETATM13943	O	HOH	1651	5.239	88.791	96.457	1.00	29.97	O
HETATM13944	O	HOH	1652	24.077	25.827	73.646	1.00	36.22	O
HETATM13945	O	HOH	1653	-12.546	76.878	26.186	1.00	35.23	O
HETATM13946	O	HOH	1654	43.631	59.671	40.486	1.00	39.80	O
HETATM13947	O	HOH	1655	18.649	31.232	45.482	1.00	41.85	O
HETATM13948	O	HOH	1656	13.728	92.192	87.532	1.00	37.44	O
HETATM13949	O	HOH	1657	27.691	81.533	41.289	1.00	40.26	O
HETATM13950	O	HOH	1658	7.835	69.140	107.034	1.00	36.67	O
HETATM13951	O	HOH	1659	-2.597	88.355	96.927	1.00	45.22	O
HETATM13952	O	HOH	1660	-16.364	78.866	53.461	1.00	41.04	O
HETATM13953	O	HOH	1661	-10.156	73.824	57.654	1.00	39.27	O
HETATM13954	O	HOH	1662	13.532	73.342	54.353	1.00	45.73	O
HETATM13955	O	HOH	1663	33.306	37.820	31.382	1.00	37.08	O
HETATM13956	O	HOH	1664	12.276	53.776	36.213	1.00	32.86	O
HETATM13957	O	HOH	1665	41.183	67.958	70.763	1.00	38.92	O
HETATM13958	O	HOH	1666	16.455	90.992	87.750	1.00	36.95	O
HETATM13959	O	HOH	1667	12.540	96.760	49.313	1.00	42.90	O



HETATM13960	O	HOH	1668	13.643	73.384	87.732	1.00	42.66	O
HETATM13961	O	HOH	1669	-12.263	32.723	88.126	1.00	43.91	O
HETATM13962	O	HOH	1670	14.038	50.586	33.458	1.00	36.95	O
HETATM13963	O	HOH	1671	31.184	64.382	73.475	1.00	38.37	O
HETATM13964	O	HOH	1672	-0.717	76.319	75.934	1.00	36.75	O
HETATM13965	O	HOH	1673	12.708	71.793	102.727	1.00	45.44	O
HETATM13966	O	HOH	1674	24.582	64.120	89.329	1.00	38.46	O
HETATM13967	O	HOH	1675	-4.139	39.310	38.742	1.00	43.14	O
HETATM13968	O	HOH	1676	-15.798	82.563	42.014	1.00	41.63	O
HETATM13969	O	HOH	1677	13.261	34.622	39.809	1.00	41.70	O
HETATM13970	O	HOH	1678	-2.040	67.238	14.221	1.00	47.09	O
HETATM13971	O	HOH	1679	16.534	37.782	50.915	1.00	34.01	O
HETATM13972	O	HOH	1680	10.171	55.181	85.804	1.00	37.43	O
HETATM13973	O	HOH	1681	12.833	72.309	33.292	1.00	38.60	O
HETATM13974	O	HOH	1682	5.260	89.537	67.683	1.00	38.73	O
HETATM13975	O	HOH	1683	5.542	63.146	36.133	1.00	19.76	O
HETATM13976	O	HOH	1684	27.787	67.531	72.292	1.00	23.78	O
HETATM13977	O	HOH	1685	-15.202	59.375	84.620	1.00	25.82	O
HETATM13978	O	HOH	1686	-0.767	65.232	59.927	1.00	30.96	O
HETATM13979	O	HOH	1687	25.714	44.137	29.533	1.00	22.54	O
HETATM13980	O	HOH	1688	36.497	55.577	50.274	1.00	30.61	O
HETATM13981	O	HOH	1689	-8.217	72.517	65.645	1.00	26.65	O
HETATM13982	O	HOH	1690	32.763	67.955	51.484	1.00	33.76	O
HETATM13983	O	HOH	1691	-8.180	57.329	40.078	1.00	28.88	O
HETATM13984	O	HOH	1692	31.016	65.789	51.164	1.00	34.96	O
HETATM13985	O	HOH	1693	0.487	61.168	81.084	1.00	21.34	O
HETATM13986	O	HOH	1694	-4.346	53.061	54.401	1.00	28.87	O
HETATM13987	O	HOH	1695	13.148	50.939	88.342	1.00	33.49	O
HETATM13988	O	HOH	1696	17.941	66.928	69.281	1.00	23.52	O
HETATM13989	O	HOH	1697	25.108	36.606	44.157	1.00	25.91	O
HETATM13990	O	HOH	1698	0.903	57.837	56.369	1.00	24.39	O
HETATM13991	O	HOH	1699	23.519	36.047	36.868	1.00	26.58	O
HETATM13992	O	HOH	1700	19.032	61.497	50.889	1.00	20.97	O
HETATM13993	O	HOH	1701	7.046	72.010	74.114	1.00	22.61	O
HETATM13994	O	HOH	1702	-11.467	68.567	63.016	1.00	25.98	O
HETATM13995	O	HOH	1703	12.248	62.263	77.054	1.00	27.36	O
HETATM13996	O	HOH	1704	29.075	67.106	47.112	1.00	34.93	O
HETATM13997	O	HOH	1705	-6.139	83.789	63.821	1.00	31.16	O
HETATM13998	O	HOH	1706	24.329	64.655	53.325	1.00	33.22	O
HETATM13999	O	HOH	1707	-13.696	59.302	32.435	1.00	28.51	O
HETATM14000	O	HOH	1708	40.483	48.634	46.061	1.00	31.35	O
HETATM14001	O	HOH	1709	-7.849	102.218	45.278	1.00	37.06	O
HETATM14002	O	HOH	1710	9.344	59.024	67.039	1.00	26.73	O
HETATM14003	O	HOH	1711	26.443	24.319	66.062	1.00	31.41	O
HETATM14004	O	HOH	1712	-15.048	54.973	83.649	1.00	31.84	O
HETATM14005	O	HOH	1713	24.742	79.759	86.719	1.00	28.59	O
HETATM14006	O	HOH	1714	2.040	84.512	65.738	1.00	31.68	O
HETATM14007	O	HOH	1715	10.864	59.007	20.313	1.00	29.01	O
HETATM14008	O	HOH	1716	29.501	79.553	73.955	1.00	31.95	O
HETATM14009	O	HOH	1717	3.600	74.300	22.952	1.00	29.87	O
HETATM14010	O	HOH	1718	4.957	74.339	100.462	1.00	40.40	O
HETATM14011	O	HOH	1719	9.963	35.839	77.138	1.00	26.85	O
HETATM14012	O	HOH	1720	3.300	54.941	22.072	1.00	25.53	O
HETATM14013	O	HOH	1721	3.225	52.684	89.028	1.00	28.55	O
HETATM14014	O	HOH	1722	8.992	53.181	60.664	1.00	28.71	O
HETATM14015	O	HOH	1723	-2.284	47.983	32.363	1.00	31.58	O
HETATM14016	O	HOH	1724	2.900	31.311	57.397	1.00	26.06	O
HETATM14017	O	HOH	1725	-13.132	61.888	73.810	1.00	30.80	O
HETATM14018	O	HOH	1726	5.768	88.159	42.945	1.00	26.41	O
HETATM14019	O	HOH	1727	26.917	65.360	54.112	1.00	32.37	O
HETATM14020	O	HOH	1728	-13.787	49.142	49.634	1.00	49.19	O
HETATM14021	O	HOH	1729	24.138	68.282	55.382	1.00	34.01	O
HETATM14022	O	HOH	1730	16.138	36.715	38.222	1.00	30.63	O
HETATM14023	O	HOH	1731	16.909	70.774	56.799	1.00	40.85	O
HETATM14024	O	HOH	1732	-18.805	57.893	80.159	1.00	35.25	O
HETATM14025	O	HOH	1733	-4.926	84.764	53.459	1.00	33.70	O
HETATM14026	O	HOH	1734	-6.558	87.818	73.505	1.00	40.73	O
HETATM14027	O	HOH	1735	8.433	35.197	79.301	1.00	26.12	O
HETATM14028	O	HOH	1736	0.171	44.922	73.639	1.00	24.24	O
HETATM14029	O	HOH	1737	-6.662	42.096	68.683	1.00	27.80	O
HETATM14030	O	HOH	1738	7.248	94.766	74.123	1.00	31.50	O
HETATM14031	O	HOH	1739	15.781	75.569	85.164	1.00	29.41	O
HETATM14032	O	HOH	1740	-13.009	62.364	62.346	1.00	27.90	O
HETATM14033	O	HOH	1741	19.504	33.486	46.809	1.00	32.17	O
HETATM14034	O	HOH	1742	17.359	95.507	72.481	1.00	31.31	O
HETATM14035	O	HOH	1743	4.198	33.136	50.912	1.00	37.60	O
HETATM14036	O	HOH	1744	4.611	84.122	77.942	1.00	34.30	O
HETATM14037	O	HOH	1745	-14.138	67.822	89.645	1.00	26.78	O
HETATM14038	O	HOH	1746	-5.423	43.237	100.065	1.00	41.52	O
HETATM14039	O	HOH	1747	31.425	77.662	74.136	1.00	29.33	O



HETATM14040	O	HOH	1748	-19.062	58.518	68.886	1.00	33.71	O
HETATM14041	O	HOH	1749	27.099	88.470	51.367	1.00	38.29	O
HETATM14042	O	HOH	1750	18.208	25.874	61.354	1.00	33.26	O
HETATM14043	O	HOH	1751	-7.331	49.231	53.089	1.00	31.78	O
HETATM14044	O	HOH	1752	34.837	75.883	76.104	1.00	30.55	O
HETATM14045	O	HOH	1753	28.974	68.690	53.558	1.00	31.32	O
HETATM14046	O	HOH	1754	18.306	62.420	63.039	1.00	40.50	O
HETATM14047	O	HOH	1755	3.653	90.148	28.282	1.00	33.51	O
HETATM14048	O	HOH	1756	28.552	85.391	79.133	1.00	45.29	O
HETATM14049	O	HOH	1757	3.903	33.181	89.112	1.00	40.08	O
HETATM14050	O	HOH	1758	24.343	47.916	77.840	1.00	34.78	O
HETATM14051	O	HOH	1759	22.582	66.408	56.821	1.00	29.10	O
HETATM14052	O	HOH	1760	0.449	66.279	97.580	1.00	32.37	O
HETATM14053	O	HOH	1761	21.014	76.855	93.425	1.00	42.73	O
HETATM14054	O	HOH	1762	35.380	52.499	44.030	1.00	30.55	O
HETATM14055	O	HOH	1763	10.100	69.668	25.464	1.00	34.64	O
HETATM14056	O	HOH	1764	-8.313	68.509	99.123	1.00	38.12	O
HETATM14057	O	HOH	1765	-0.949	33.608	86.151	1.00	34.38	O
HETATM14058	O	HOH	1766	15.015	57.422	66.955	1.00	30.28	O
HETATM14059	O	HOH	1767	26.662	104.076	63.568	1.00	37.18	O
HETATM14060	O	HOH	1768	25.527	63.719	28.361	1.00	43.64	O
HETATM14061	O	HOH	1769	7.731	92.737	83.170	1.00	34.97	O
HETATM14062	O	HOH	1770	-19.400	56.413	88.538	1.00	44.83	O
HETATM14063	O	HOH	1771	-13.578	76.711	52.526	1.00	38.83	O
HETATM14064	O	HOH	1772	1.300	69.687	82.566	1.00	44.67	O
HETATM14065	O	HOH	1773	7.163	39.950	31.209	1.00	41.94	O
HETATM14066	O	HOH	1774	19.983	30.747	72.647	1.00	38.61	O
HETATM14067	O	HOH	1775	37.409	69.947	57.382	1.00	32.97	O
HETATM14068	O	HOH	1776	10.916	85.759	91.178	1.00	36.78	O
HETATM14069	O	HOH	1777	41.199	48.440	48.722	1.00	35.12	O
HETATM14070	O	HOH	1778	-6.881	60.719	57.505	1.00	38.99	O
HETATM14071	O	HOH	1779	11.390	34.932	29.784	1.00	37.54	O
HETATM14072	O	HOH	1780	21.895	64.991	64.868	1.00	31.80	O
HETATM14073	O	HOH	1781	3.249	66.088	58.430	1.00	36.50	O
HETATM14074	O	HOH	1782	20.592	103.041	58.822	1.00	46.43	O
HETATM14075	O	HOH	1783	7.616	55.715	92.302	1.00	31.51	O
HETATM14076	O	HOH	1784	30.225	74.252	49.827	1.00	39.32	O
HETATM14077	O	HOH	1785	24.612	62.214	72.371	1.00	33.63	O
HETATM14078	O	HOH	1786	-3.876	102.259	46.228	1.00	38.52	O
HETATM14079	O	HOH	1787	24.230	88.505	87.406	1.00	40.03	O
HETATM14080	O	HOH	1788	-22.223	72.642	61.434	1.00	43.18	O
HETATM14081	O	HOH	1789	2.564	29.467	62.628	1.00	38.60	O
HETATM14082	O	HOH	1790	-18.414	65.737	61.906	1.00	32.73	O
HETATM14083	O	HOH	1791	24.647	91.807	57.048	1.00	38.30	O
HETATM14084	O	HOH	1792	11.082	94.301	48.115	1.00	37.64	O
HETATM14085	O	HOH	1793	1.909	89.977	92.157	1.00	43.30	O
HETATM14086	O	HOH	1794	-15.584	54.903	56.301	1.00	44.18	O
HETATM14087	O	HOH	1795	2.383	63.224	56.909	1.00	39.16	O
HETATM14088	O	HOH	1796	6.169	26.716	53.089	1.00	44.92	O
HETATM14089	O	HOH	1797	3.369	86.588	19.264	1.00	33.92	O
HETATM14090	O	HOH	1798	8.486	93.113	85.693	1.00	39.83	O
HETATM14091	O	HOH	1799	19.832	35.115	81.575	1.00	32.42	O
HETATM14092	O	HOH	1800	-12.400	45.155	97.960	1.00	40.58	O
HETATM14093	O	HOH	1801	5.370	42.603	59.768	1.00	28.41	O
HETATM14094	O	HOH	1802	9.934	105.050	55.149	1.00	38.31	O
HETATM14095	O	HOH	1803	25.564	81.860	79.699	1.00	30.43	O
HETATM14096	O	HOH	1804	11.364	72.647	60.847	1.00	30.28	O
HETATM14097	O	HOH	1805	15.307	60.984	31.810	1.00	42.72	O
HETATM14098	O	HOH	1806	-15.027	76.961	44.551	1.00	44.79	O
HETATM14099	O	HOH	1807	2.339	38.197	59.411	1.00	30.62	O
HETATM14100	O	HOH	1808	-14.353	76.937	82.210	1.00	45.50	O
HETATM14101	O	HOH	1809	16.015	76.941	82.812	1.00	33.54	O
HETATM14102	O	HOH	1810	25.986	51.660	19.314	1.00	33.50	O
HETATM14103	O	HOH	1811	14.914	54.059	37.825	1.00	32.21	O
HETATM14104	O	HOH	1812	16.214	79.310	33.083	1.00	44.74	O
HETATM14105	O	HOH	1813	-13.257	55.059	52.242	1.00	44.86	O
HETATM14106	O	HOH	1814	-3.503	58.902	56.493	1.00	31.90	O
HETATM14107	O	HOH	1815	17.743	62.759	25.526	1.00	41.59	O
HETATM14108	O	HOH	1816	17.231	67.104	93.263	1.00	36.44	O
HETATM14109	O	HOH	1817	11.712	74.433	84.337	1.00	41.14	O
HETATM14110	O	HOH	1818	-2.462	36.371	46.798	1.00	40.86	O
HETATM14111	O	HOH	1819	26.847	67.542	56.343	1.00	35.71	O
HETATM14112	O	HOH	1820	17.070	64.995	57.739	1.00	44.59	O
HETATM14113	O	HOH	1821	33.767	82.197	85.079	1.00	35.12	O
HETATM14114	O	HOH	1822	-17.909	56.259	85.473	1.00	41.37	O
HETATM14115	O	HOH	1823	35.600	38.951	32.074	1.00	46.60	O
HETATM14116	O	HOH	1824	15.707	72.428	89.110	1.00	43.65	O
HETATM14117	O	HOH	1825	2.454	89.892	38.630	1.00	37.38	O
HETATM14118	O	HOH	1826	28.069	97.411	71.924	1.00	48.38	O
HETATM14119	O	HOH	1827	35.729	82.902	68.447	1.00	46.15	O



HETATM14120	O	HOH	1828	18.203	24.110	68.814	1.00	34.79	O
HETATM14121	O	HOH	1829	-9.701	85.457	78.536	1.00	44.14	O
HETATM14122	O	HOH	1830	13.866	72.798	56.932	1.00	45.50	O
HETATM14123	O	HOH	1831	-10.653	38.964	48.913	1.00	34.15	O
HETATM14124	O	HOH	1832	29.949	50.034	22.961	1.00	42.64	O
HETATM14125	O	HOH	1833	43.363	44.954	51.397	1.00	39.25	O
HETATM14126	O	HOH	1834	43.671	44.235	47.070	1.00	44.66	O
HETATM14127	O	HOH	1835	16.190	46.178	25.308	1.00	42.89	O
HETATM14128	O	HOH	1836	22.822	77.090	32.652	1.00	37.83	O
HETATM14129	O	HOH	1837	24.997	61.184	87.758	1.00	34.76	O
HETATM14130	O	HOH	1838	53.906	66.546	47.111	1.00	38.80	O
HETATM14131	O	HOH	1839	9.297	65.522	94.252	1.00	35.77	O
HETATM14132	O	HOH	1840	21.155	54.565	35.408	1.00	46.32	O
HETATM14133	O	HOH	1841	20.921	32.427	70.763	1.00	41.15	O
HETATM14134	O	HOH	1842	-8.753	87.802	42.252	1.00	39.70	O
HETATM14135	O	HOH	1843	16.324	27.310	48.113	1.00	39.98	O
HETATM14136	O	HOH	1844	-24.307	74.339	64.474	1.00	35.01	O
HETATM14137	O	HOH	1845	-5.752	33.633	81.979	1.00	44.67	O
HETATM14138	O	HOH	1846	14.387	57.771	41.459	1.00	36.81	O
HETATM14139	O	HOH	1847	36.489	71.883	61.207	1.00	30.99	O
HETATM14140	O	HOH	1848	31.508	38.636	75.089	1.00	38.01	O
HETATM14141	O	HOH	1849	13.719	23.079	68.692	1.00	35.29	O
HETATM14142	O	HOH	1850	-1.662	53.054	20.069	1.00	41.28	O
HETATM14143	O	HOH	1851	32.649	70.632	50.779	1.00	44.97	O
HETATM14144	O	HOH	1852	-1.362	37.801	97.579	1.00	42.66	O
HETATM14145	O	HOH	1853	9.058	90.588	88.546	1.00	37.31	O
HETATM14146	O	HOH	1854	4.808	75.732	74.897	1.00	43.02	O
HETATM14147	O	HOH	1855	4.309	45.315	38.008	1.00	36.46	O
HETATM14148	O	HOH	1856	11.168	57.558	12.658	1.00	39.61	O
HETATM14149	O	HOH	1857	-15.255	51.565	53.308	1.00	41.59	O
HETATM14150	O	HOH	1858	-14.952	73.443	26.305	1.00	51.65	O
HETATM14151	O	HOH	1859	-2.152	32.413	92.171	1.00	43.39	O
HETATM14152	O	HOH	1860	16.568	65.467	25.961	1.00	41.62	O
HETATM14153	O	HOH	1861	-12.899	38.150	79.198	1.00	38.01	O
HETATM14154	O	HOH	1862	11.855	22.430	54.721	1.00	41.88	O
HETATM14155	O	HOH	1863	-5.130	48.219	51.945	1.00	36.99	O
HETATM14156	O	HOH	1864	29.393	23.980	53.952	1.00	35.32	O
HETATM14157	O	HOH	1865	-0.996	40.543	98.031	1.00	44.89	O
HETATM14158	O	HOH	1866	24.848	23.251	72.141	1.00	40.29	O
HETATM14159	O	HOH	1867	11.805	79.516	79.960	1.00	41.31	O
HETATM14160	O	HOH	1868	31.519	54.492	32.710	1.00	46.44	O
HETATM14161	O	HOH	1869	33.775	90.487	75.533	1.00	47.61	O
HETATM14162	O	HOH	1870	4.150	61.796	53.392	1.00	38.41	O
HETATM14163	O	HOH	1871	6.490	25.834	56.027	1.00	45.55	O
HETATM14164	O	HOH	1872	25.601	57.964	87.429	1.00	36.47	O
HETATM14165	O	HOH	1873	36.701	54.580	72.836	1.00	45.66	O
HETATM14166	O	HOH	1874	3.793	24.234	63.641	1.00	37.70	O
HETATM14167	O	HOH	1875	-0.622	86.383	97.169	1.00	43.94	O
HETATM14168	O	HOH	1876	-4.797	67.577	96.148	1.00	41.44	O
HETATM14169	O	HOH	1877	25.015	50.445	31.347	1.00	39.90	O
HETATM14170	O	HOH	1878	13.153	50.888	43.311	1.00	37.60	O
HETATM14171	O	HOH	1879	5.206	62.927	58.574	1.00	42.95	O
HETATM14172	O	HOH	1880	10.656	33.304	87.753	1.00	45.28	O
HETATM14173	O	HOH	1881	34.445	58.897	87.363	1.00	45.09	O
HETATM14174	O	HOH	1882	-9.001	77.322	94.769	1.00	47.61	O
HETATM14175	O	HOH	1883	44.412	56.189	37.610	1.00	48.20	O
HETATM14176	O	HOH	1884	3.201	62.841	63.722	1.00	38.14	O
HETATM14177	O	HOH	1885	20.809	53.723	88.691	1.00	34.65	O
HETATM14178	O	HOH	1886	-2.850	33.633	72.968	1.00	47.05	O
HETATM14179	O	HOH	1887	14.538	70.471	55.682	1.00	41.63	O
HETATM14180	O	HOH	1888	19.855	77.699	45.126	1.00	39.37	O
HETATM14181	O	HOH	1889	6.080	72.649	57.607	1.00	44.51	O
HETATM14182	O	HOH	1890	23.929	66.023	59.155	1.00	46.39	O
HETATM14183	O	HOH	1891	-10.964	84.167	72.256	1.00	40.69	O
HETATM14184	O	HOH	1892	37.625	87.817	82.807	1.00	45.63	O
HETATM14185	O	HOH	1893	44.163	72.246	45.263	1.00	43.07	O
HETATM14186	O	HOH	1894	7.931	56.056	61.819	1.00	38.19	O
HETATM14187	O	HOH	1895	36.164	63.289	82.700	1.00	46.57	O
HETATM14188	O	HOH	1896	-21.572	78.626	73.525	1.00	44.69	O
HETATM14189	O	HOH	1897	20.005	83.498	22.610	1.00	43.81	O
HETATM14190	O	HOH	1898	8.508	65.790	57.686	1.00	39.61	O
HETATM14191	O	HOH	1899	15.288	111.209	64.721	1.00	46.33	O
HETATM14192	O	HOH	1900	50.100	72.320	48.689	1.00	33.84	O
HETATM14193	O	HOH	1901	27.201	63.304	71.875	1.00	46.64	O
HETATM14194	O	HOH	1902	-8.491	70.240	19.431	1.00	41.58	O
HETATM14195	O	HOH	1903	20.683	30.477	43.789	1.00	37.64	O
HETATM14196	O	HOH	1904	-10.829	75.790	90.976	1.00	39.14	O
HETATM14197	O	HOH	1905	16.628	40.931	92.157	1.00	39.35	O
HETATM14198	O	HOH	1906	-14.995	79.712	33.773	1.00	43.50	O
HETATM14199	O	HOH	1907	-9.293	55.640	17.580	1.00	44.22	O



HETATM14200	O	HOH	1908	36.451	84.884	66.359	1.00	42.17	O
HETATM14201	O	HOH	1909	6.399	24.229	65.342	1.00	37.02	O
HETATM14202	O	HOH	1910	-20.549	59.127	64.948	1.00	43.90	O
HETATM14203	O	HOH	1911	34.877	39.998	27.327	1.00	42.72	O
HETATM14204	O	HOH	1912	-17.544	54.764	71.756	1.00	38.21	O
HETATM14205	O	HOH	1913	-6.954	53.489	34.319	1.00	37.63	O
HETATM14206	O	HOH	1914	14.769	53.122	43.066	1.00	38.73	O
HETATM14207	O	HOH	1915	17.804	68.700	63.834	1.00	42.88	O
HETATM14208	O	HOH	1916	5.992	73.109	81.477	1.00	43.50	O
HETATM14209	O	HOH	1917	37.662	67.320	56.667	1.00	36.62	O
HETATM14210	O	HOH	1918	48.771	54.158	48.413	1.00	42.42	O
HETATM14211	O	HOH	1919	23.171	85.123	89.623	1.00	46.21	O
HETATM14212	O	HOH	1920	25.094	39.008	31.623	1.00	31.35	O
HETATM14213	O	HOH	1921	29.965	86.474	56.080	1.00	34.97	O
HETATM14214	O	HOH	1922	32.007	94.787	80.103	1.00	41.75	O
HETATM14215	O	HOH	1923	26.531	57.510	33.414	1.00	44.65	O
HETATM14216	O	HOH	1924	13.601	92.968	31.617	1.00	42.17	O
HETATM14217	O	HOH	1925	16.597	51.885	38.343	1.00	38.79	O
HETATM14218	O	HOH	1926	26.749	90.131	44.416	1.00	45.69	O
HETATM14219	O	HOH	1927	35.070	78.062	85.531	1.00	38.83	O
HETATM14220	O	HOH	1928	-21.558	71.059	77.539	1.00	41.41	O
HETATM14221	O	HOH	1929	41.015	31.813	48.864	1.00	41.35	O
HETATM14222	O	HOH	1930	32.503	81.407	50.048	1.00	41.85	O
HETATM14223	O	HOH	1931	25.310	45.134	86.636	1.00	49.07	O
HETATM14224	O	HOH	1932	9.423	43.119	17.983	1.00	39.15	O
HETATM14225	O	HOH	1933	-23.236	76.221	66.177	1.00	31.64	O
HETATM14226	O	HOH	1934	-9.366	66.786	16.390	1.00	35.66	O
HETATM14227	O	HOH	1935	10.614	74.976	52.222	1.00	40.57	O
HETATM14228	O	HOH	1936	-8.840	82.960	56.703	1.00	40.71	O
HETATM14229	O	HOH	1937	23.540	66.026	62.961	1.00	48.22	O
HETATM14230	O	HOH	1938	0.071	94.812	21.492	1.00	39.38	O
HETATM14231	O	HOH	1939	13.499	83.770	98.106	1.00	42.90	O
HETATM14232	O	HOH	1940	-13.142	43.124	61.262	1.00	50.37	O
HETATM14233	O	HOH	1941	27.384	56.708	24.236	1.00	47.15	O
HETATM14234	O	HOH	1942	28.235	68.372	88.646	1.00	39.88	O
HETATM14235	O	HOH	1943	-13.976	83.787	68.338	1.00	41.75	O
HETATM14236	O	HOH	1944	8.968	77.174	85.765	1.00	50.28	O
HETATM14237	O	HOH	1945	3.601	55.609	14.986	1.00	40.50	O
HETATM14238	O	HOH	1946	8.792	75.875	83.410	1.00	37.59	O
HETATM14239	O	HOH	1947	32.695	72.702	35.421	1.00	47.37	O
HETATM14240	O	HOH	1948	39.164	73.452	60.341	1.00	35.23	O
HETATM14241	O	HOH	1949	-14.599	85.875	25.835	1.00	42.42	O
HETATM14242	O	HOH	1950	19.589	78.204	90.511	1.00	44.48	O
HETATM14243	O	HOH	1951	47.226	46.597	43.851	1.00	42.84	O
HETATM14244	O	HOH	1952	7.801	94.005	31.757	1.00	34.32	O
HETATM14245	O	HOH	1953	37.669	49.929	86.239	1.00	47.11	O
HETATM14246	O	HOH	1954	13.002	68.224	81.437	1.00	45.22	O
HETATM14247	O	HOH	1955	11.753	62.391	56.203	1.00	40.65	O
HETATM14248	O	HOH	1956	6.480	56.168	96.437	1.00	43.62	O
HETATM14249	O	HOH	1957	0.083	36.699	37.477	1.00	38.57	O
HETATM14250	O	HOH	1958	-10.153	86.070	65.992	1.00	43.07	O
HETATM14251	O	HOH	1959	22.547	78.144	86.996	1.00	48.79	O
HETATM14252	O	HOH	1960	11.355	48.944	36.431	1.00	30.49	O
HETATM14253	O	HOH	1961	-7.812	48.427	102.033	1.00	44.11	O
HETATM14254	O	HOH	1962	11.832	66.281	95.106	1.00	47.08	O
HETATM14255	O	HOH	1963	23.464	29.031	45.888	1.00	47.36	O
HETATM14256	O	HOH	1964	20.655	24.395	67.841	1.00	43.49	O
HETATM14257	O	HOH	1965	-8.424	59.594	101.728	1.00	40.47	O
HETATM14258	O	HOH	1966	22.379	99.590	41.767	1.00	45.16	O
HETATM14259	O	HOH	1967	3.637	36.065	42.036	1.00	37.28	O
HETATM14260	O	HOH	1968	23.577	88.427	37.270	1.00	48.11	O
HETATM14261	O	HOH	1969	38.887	50.781	45.096	1.00	48.74	O
HETATM14262	O	HOH	1970	34.159	25.291	65.643	1.00	39.38	O
HETATM14263	O	HOH	1971	-3.572	80.424	81.461	1.00	45.55	O
HETATM14264	O	HOH	1972	7.184	31.007	86.266	1.00	41.89	O
HETATM14265	O	HOH	1973	25.509	53.859	38.767	1.00	39.29	O
HETATM14266	O	HOH	1974	-9.725	89.534	52.195	1.00	45.09	O
HETATM14267	O	HOH	1975	-3.115	39.069	41.198	1.00	42.23	O
HETATM14268	O	HOH	1976	3.558	96.400	35.787	1.00	46.77	O
HETATM14269	O	HOH	1977	-5.778	78.921	81.317	1.00	47.22	O
HETATM14270	O	HOH	1978	-12.957	66.927	20.107	1.00	40.64	O
HETATM14271	O	HOH	1979	3.905	33.270	45.282	1.00	40.39	O
HETATM14272	O	HOH	1980	36.770	75.948	85.259	1.00	45.04	O
HETATM14273	O	HOH	1981	22.774	52.348	38.862	1.00	40.92	O
HETATM14274	O	HOH	1982	25.890	38.591	34.200	1.00	48.70	O
HETATM14275	O	HOH	1983	17.332	33.635	77.416	1.00	34.25	O
HETATM14276	O	HOH	1984	17.829	64.788	85.244	1.00	39.29	O
HETATM14277	O	HOH	1985	42.939	52.736	59.524	1.00	47.73	O
HETATM14278	O	HOH	1986	40.084	64.098	49.820	1.00	44.65	O
HETATM14279	O	HOH	1987	16.402	60.452	9.914	1.00	43.75	O



HETATM14280	O	HOH	1988	28.775	71.429	89.468	1.00	45.20	O
HETATM14281	O	HOH	1989	22.021	78.588	89.641	1.00	40.32	O
HETATM14282	O	HOH	1990	-22.661	41.576	46.828	1.00	45.00	O
HETATM14283	O	HOH	1991	26.789	71.319	32.537	1.00	43.30	O
HETATM14284	O	HOH	1992	42.962	83.114	70.491	1.00	40.99	O
HETATM14285	O	HOH	1993	-11.335	41.032	69.131	1.00	45.62	O
HETATM14286	O	HOH	1994	39.618	77.197	66.099	1.00	50.07	O
HETATM14287	O	HOH	1995	19.426	62.420	91.404	1.00	40.39	O
HETATM14288	O	HOH	1996	6.432	33.893	77.988	1.00	38.10	O
HETATM14289	O	HOH	1997	-1.633	67.493	95.972	1.00	44.64	O
HETATM14290	O	HOH	1998	-25.029	76.642	74.265	1.00	47.01	O
HETATM14291	O	HOH	1999	-17.099	56.887	59.919	1.00	41.05	O
HETATM14292	O	HOH	2000	3.280	72.108	82.073	1.00	43.70	O
HETATM14293	O	HOH	2001	-18.421	65.536	59.205	1.00	32.05	O
HETATM14294	O	HOH	2002	20.355	42.752	90.879	1.00	38.80	O
HETATM14295	O	HOH	2003	12.426	28.604	45.295	1.00	44.87	O
HETATM14296	O	HOH	2004	42.549	75.417	50.385	1.00	42.46	O
HETATM14297	O	HOH	2005	2.901	59.230	102.478	1.00	43.78	O
HETATM14298	O	HOH	2006	3.669	60.181	57.302	1.00	48.48	O
HETATM14299	O	HOH	2007	-1.520	34.586	49.104	1.00	43.42	O
HETATM14300	O	HOH	2008	16.137	98.564	43.037	1.00	45.51	O
HETATM14301	O	HOH	2009	4.284	44.630	97.100	1.00	47.78	O
HETATM14302	O	HOH	2010	-7.233	92.448	68.365	1.00	47.75	O
HETATM14303	O	HOH	2011	6.251	60.401	58.037	1.00	40.48	O
HETATM14304	O	HOH	2012	6.936	74.417	75.974	1.00	39.45	O
HETATM14305	O	HOH	2013	29.023	102.435	64.899	1.00	46.53	O
HETATM14306	O	HOH	2014	6.314	90.526	24.232	1.00	47.54	O
HETATM14307	O	HOH	2015	-12.724	67.386	94.605	1.00	43.93	O
HETATM14308	O	HOH	2016	28.574	86.856	53.433	1.00	41.16	O
HETATM14309	O	HOH	2017	19.589	84.950	32.100	1.00	35.95	O
HETATM14310	O	HOH	2018	29.450	41.093	78.097	1.00	45.40	O
HETATM14311	O	HOH	2019	-6.888	41.669	95.864	1.00	43.43	O
HETATM14312	O	HOH	2020	19.356	98.388	87.492	1.00	41.91	O
HETATM14313	O	HOH	2021	21.575	68.558	61.854	1.00	40.53	O
HETATM14314	O	HOH	2022	44.888	62.245	40.567	1.00	41.98	O
HETATM14315	O	HOH	2023	18.575	109.957	57.824	1.00	42.65	O
HETATM14316	O	HOH	2024	27.170	78.696	34.591	1.00	40.37	O
HETATM14317	O	HOH	2025	29.015	66.250	28.924	1.00	40.95	O
HETATM14318	O	HOH	2026	-1.942	63.052	58.835	1.00	42.05	O
HETATM14319	O	HOH	2027	11.141	35.700	36.698	1.00	50.96	O
HETATM14320	O	HOH	2028	37.721	52.608	86.315	1.00	41.80	O
HETATM14321	O	HOH	2029	42.269	72.979	84.877	1.00	38.70	O
HETATM14322	O	HOH	2030	40.806	33.295	38.588	1.00	47.27	O
HETATM14323	O								



CONNECT132561325713258  
CONNECT1325713256  
CONNECT13258132561325913260  
CONNECT1325913258  
CONNECT1326013258  
CONNECT13261132621326313264  
CONNECT1326213261  
CONNECT1326313261  
CONNECT132641326113265  
CONNECT132651326413266  
CONNECT13266132651326713268  
CONNECT1326713266  
CONNECT1326813266  
CONNECT13269132701327113272  
CONNECT1327013269  
CONNECT1327113269  
CONNECT132721326913273  
CONNECT132731327213274  
CONNECT13274132731327513276  
CONNECT1327513274  
CONNECT1327613274  
CONNECT13277132781327913280  
CONNECT1327813277  
CONNECT1327913277  
CONNECT132801327713281  
CONNECT132811328013282  
CONNECT13282132811328313284  
CONNECT1328313282  
CONNECT1328413282  
CONNECT13285132861328713288  
CONNECT1328613285  
CONNECT1328713285  
CONNECT132881328513289  
CONNECT132891328813290  
CONNECT13290132891329113292  
CONNECT1329113290  
CONNECT1329213290  
MASTER 343 0 12 88 48 0 0 614340 4 52 132  
END